

John Denis Enderle

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Biomedical Engineering
University of Connecticut
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CITIZENSHIP: United States

EDUCATION:

Rensselaer Polytechnic Institute, Troy, New York

September 1973 - May 1980

Ph.D., Biomedical Engineering, May 1980

“A Stochastic Communicable Disease Model with Age Specific States and Applications to Measles”

M.E., Electrical and Systems Engineering, May 1978

M.E., Biomedical Engineering, May 1977

“Analysis and Construction of an Electronic Thermometer”

B.S., Biomedical Engineering, May 1975

Suffolk County Community College, Seldon, New York

September 1971 - June 1973

A.S., Engineering Science, June 1973

SUMMARY OF POSITIONS HELD:

Morgan & Claypool Publishers

Biomedical Engineering Book Series Editor; September 2004-Present

40 Oak View Drive, San Rafael, CA 94903

IEEE-EMBS

Editor-in-Chief of the *EMB Magazine*, January 2002-2008

University of Connecticut

Teaching Fellow; 1998 - Present

Director, Biomedical Engineering; 1997-2010

Department Head, Electrical & Systems Engineering; 1995 - 1997

Professor; January 1995 - Present

Electrical & Computer Engineering Department

260 Glenbrook Road

Storrs, CT 06269-2247

National Science Foundation

Program Director for Biomedical Engineering and Research Aiding Persons with Disabilities Program; January 1994 - June 1995

Room 565

4201 Wilson Boulevard

Arlington, Virginia 22230

North Dakota State University

NDSU Distinguished Professor; September 1992 - January 1995

Professor; April 1990 - January 1995

Associate Professor; May 1985 - April 1990

Coordinator of Biomedical Engineering; September 1984 - 1993

Assistant Professor; June 1981 - May 1985

Department of Electrical Engineering

Fargo, North Dakota 58105

University of North Dakota School of Medicine

Adjunct Associate Professor; April 1986 - January 1995

Department of Neuroscience

Grand Forks, North Dakota

Brooks Air Force Base

Research Associate; June 1982 - 1995

School of Aerospace Medicine

San Antonio, Texas

Fargo Veterans Administration Medical Center

Research Consultant; January 1982 - 1995

Departments of Neurology and Endocrinology

Fargo, North Dakota 58102

Pattern Analysis and Recognition Corporation

Senior Staff Member; September 1979 - May 1981

228 Liberty Plaza

Rome, New York

Rensselaer Polytechnic Institute

Research/Teaching Associate; September 1975 - August 1979

Troy, New York

PROFESSIONAL ORGANIZATIONS AND HONORS:

Fellow Grade

ASEE Fellow, April 16, 2008

BMES Inaugural Class Fellow, January 1, 2005

University of Connecticut Teaching Fellow, May 1999

AIMBE Fellow, January 1, 1998

Rensselaer Alumni Association Fellow, May 1996

IEEE EMBS Fellow, January 1, 1994

Awards

- 2014 *Hojjat Adeli Award for Outstanding Contribution in Neural Systems* for the paper: J. D. Enderle and D. A. Sierra (2013), "A New Linear Muscle Fiber Model for Neural Control of Saccades," *International Journal of Neural Systems*, 23:2, 1350032. The *Hojjat Adeli Award for Outstanding Contributions in Neural Systems*, established by World Scientific Publishing Co. in 2010, is awarded annually to the most innovative paper published in the previous volume/year of the **International Journal of Neural Systems**.
- 2009 IEEE-EMBS Outstanding Performance Award to the UConn EMBS Student Branch Chapter – Enderle was the Faculty Advisor
- 2009 Alpha Eta Mu Beta, National Biomedical Engineering Honor Society, Elected Faculty Member, April 30, 2009
- 2007 ASEE National Fred Merryfield Design Award
- 2006 IEEE-EMBS Outstanding Performance Award to the UConn EMBS Student Branch Chapter – Enderle was the Faculty Advisor
- 2006 ASEE Theo C. Pilkington Outstanding Educator Award
- 2006 AAUP Excellence Award in University Service
- 2005 President's Award for Significant Contributions to the RMBS
- 2005 UConn Electrical & Computer Engineering Dept. Excellence in Teaching Award
- 2004 IEEE-EMBS Service Award
- 2004-Present, IEEE-EMBS Distinguished Lecturer
- 2003 Connecticut Academy of Science and Engineering, Elected Member
- 2003 Received from the Society for Technical Communication (NY Metro Chapter) Merit Award in the Technical Art Competition, *EMB Magazine* is on the "New Face of Terrorism" (September 2002). John Enderle, Editor-in-Chief; Brian Benbrook, Managing Editor; Janet Dudar, Art Director.
- 2002 Received from the Society for Technical Communication (NY Metro Chapter) 2nd Place (Excellence) Award for Technical Publications, Trade/News Article category, *EMB Magazine* issue on "Golden Accomplishments in Biomedical Engineering" (May 2002). John Enderle, Editor-in-Chief; Frederick Nebeker, author, IEEE Senior Research Historian; Brian Benbrook, Managing Editor; Janet Dudar, Art Director.
- 1998-99 Teaching Fellow for Excellence and Dedication to Teaching and the Instructional Mission for the University of Connecticut
- 1996 Recipient of the Rensselaer Alumni Association Fellow Award
- 1992-93 Recipient of the NDSU Fargo Chamber of Commerce Distinguished Professorship Award for Exceptional Professional Achievements leading to Recognition not only at NDSU and the State, but also Nationally and Internationally
- 1991-92 Recipient of the NDSU Burlington Northern Foundation Faculty Achievement Award for Outstanding Accomplishments Service and Teaching
- 1990 Recipient of the Mikol Award for Best Paper; Functional Senior Design Projects for the Disabled. 1990 Annual Meeting of the North-Midwest Section of the American Society for Engineering Education
- 1988-89 Recipient of the NDSU College of Engineering & Architecture Award for Outstanding Accomplishments in Research and Scholarly Activities
- 1988 Recipient of the Sigma Xi Award for Outstanding Research in the North Dakota State University Chapter
- 1982-83 Recipient of the IEEE Prime Mover Award (Student Selected Outstanding Electrical Engineering Professor at North Dakota State University)

Professional Organizations

Connecticut Academy of Science and Engineering, Elected Member in 2003.

Institute of Electrical & Electronics Engineers (IEEE)- Engineering in Medicine and Biology Society

Elected IEEE Fellow, Jan. 1, 1994

Senior Member, 1986-1993

Member, 1980-1986

Student Member, 1974-1979

EMBS Distinguished Lecturer, December 2004-Present

Appointed Editor-in-Chief of the *EMB Magazine*, January 2002-2008

Appointed Co-Editor-in-Chief of the *EMB Magazine*, August 2001-December 2001

Associate Editor of the *EMB Magazine*, July 1999-December 2001

Elected IEEE-EMBS President-Elect for 1996, President for 1997 and Past-President for 1998

Elected as Member-at-Large to the IEEE Engineering in Medicine & Biology Society (EMBS)

Administrative Committee (AdCom), 1992 - 1994, 1995 - 1997

Appointed EMBS Conference Chair of the World Congress on Medical Physics and

Biomedical Engineering in 2000, 1998-2000

Appointed EMBS Co-Program Chair of the World Congress on Medical Physics and

Biomedical Engineering in 2000, 1998

Member of the IEEE Technical Activities Board (TAB) and TAB Periodical Council, 1997

Elected to TAB Finance Committee, 1998

Member of the IEEE-EMBS Executive Committee 1993, 1995 - 1998

University of Connecticut IEEE EMBS Student Branch Chapter Advisor 2005-Present, and

Student Club 1995-2005

Elected as IEEE-EMBS Vice-President for Publications & Technical Activities, 1995

Elected as IEEE-EMBS Vice-President for Member and Student Activities, 1993

IEEE-EMBS Publications Chairman, 1994 - 1995

IEEE-EMBS Student Activities Chairman, 1991 - 1993

IEEE EMBS Health Care Engineering Policy Committee Representative, 1994

IEEE EMBS Defense R&D Committee Representative, 1990 - 1994

Red River Valley Section IEEE PACE Chairman, 1989

Red River Valley Section IEEE Chairman, 1988

Red River Valley Section IEEE Vice-Chairman, 1987

Red River Valley Section IEEE USAB Continuing Engineering Education Committee,

Corresponding Member, 1987-1990

Red River Valley Subsection IEEE Secretary-Treasurer, 1986

NDSU IEEE Student Branch Chapter Advisor for the EMBS, 1985-1993

Reviewer for the IEEE Transactions on Biomedical Engineering, 1986-Present

Reviewer for the IEEE Computer Engineering Society Computer Magazine, 1990 - Present

American Institute for Medical & Biological Engineering (AIMBE)

Elected Fellow, January 1, 1998

Biomedical Engineering Society (BMES)

Fellow, January 1, 2005; Senior Member, 1997-2003; Member 1993-1997

Accreditation Activities Committee, 2003-2009

UConn Student Chapter Advisor, 1995 - Present

ABET/EAC Engineering Accreditation Commission

Appointed to the Engineering Accreditation Commission (EAC), July 2004 - 2009

Program Evaluator for Bioengineering Programs, 1996-2009.

PEV Trainer (Support Facilitator for the New ABET Training Model), 2007 - 2009

American Society for Engineering Education (ASEE),

ASEE Fellow, April 16, 2008, Member, 1986 - 2008

2007 ASEE National Fred Merryfield Design Award
 2006 ASEE Theo C. Pilkington Outstanding Educator Award
 Biomedical Engineering Division Vice-Chair, Career Development and Awards, 2001-02
 Biomedical Engineering Division Program Chair-Elect, 2002-03
 Biomedical Engineering Division Chair Elect and Program Chair, 2003-04
 Biomedical Engineering Division Chair, 2004-05
 Biomedical Engineering Division Past-Chair, 2005-06

Northeast Bioengineering Conference Chair, 2000 and 2001.

National Science Foundation- Reviewer for Engineering Directorate, 1987-Present.

Addison-Wesley Publishing Company (Engineering), Reviewer, 1993-Present

Participant in the Workshop on Computational Neuroscience - Refining Ocular Motor Models Through Simulation, held at the Cold Spring Harbor Laboratory, July 5-9, 1988

Editorial Board, *Journal of Connectivity*, 2015-Present

Editorial Board, *International Journal of Neural Systems*, 2005-Present

Editorial Board, *Automatic Control of Physiological State and Function*, 2011-Present

Editorial Board, *Journal of Medical Engineering*, 2012-Present

Board of Directors, Rocky Mountain Bioengineering Symposium, 1984-Present

President, 1990-1992, 1992-1994

Program Chairman for 30th Annual Conference, 1993

Vice-President, 1989-1990

Conference & Program Chairman for 24th Annual Conference, 1987

Secretary, 1987-1989

Member at Large, 1986-1987

Who's Who in the East, 26th Edition

NEEDHA, the National Electrical Engineering Department Heads Association, Member, 1995-1997

Sigma Xi, The Scientific Research Society, Member, 1982 - Present

Rodin Remediation, Scientific Member of the Foundation, 1988 - Present

Southeastern Center for Electrical Engineering Education, Named a Fellow in 1982

North Dakota State University

Elected Presiding Officer-Elect of the NDSU University Senate, 1993 (Did not become Presiding Officer of the NDSU University Senate due to a leave-of-absence to assume the NSF Program Director position for the Biomedical Engineering and Research to Aid Persons with Disabilities Program)

Rensselaer Polytechnic Institute Engineering and Science Award Recipient, 1973

Tau Beta Pi and Pi Alpha Sigma Honor Societies

National Honor Society, 1971

PUBLICATIONS:

Journals

Ghahari, A., and Enderle, J.D., A Neuron-Based Time-Optimal Controller of Horizontal Saccadic Eye Movements. *International Journal of Neural Systems*, Vol. 24, 1450017 (19 pages), 2014. DOI: 10.1142/S0129065714500178.

Ghahari, A., and Enderle, J.D., A Physiological Neural Controller of a Muscle Fiber Oculomotor Plant in Horizontal Monkey Saccades," *ISRN Ophthalmology*, vol. 2014, Article ID 406210, 19 pages, 2014. doi:10.1155/2014/406210

Enderle, J., and Sierra, D., A New Linear Muscle Fiber Model for Neural Control of Saccades. *International Journal of Neural Systems*, Vol. 23, No. 2, 2013. DOI: 10.1142/S0129065713500020. **This**

paper was selected as the **2013 Hojjat Adeli Award for Outstanding Contribution in Neural Systems**. The **Hojjat Adeli Award for Outstanding Contributions in Neural Systems**, established by World Scientific Publishing Co. in 2010, is awarded annually to the most innovative paper published in the previous volume/year of the **International Journal of Neural Systems**.

Sierra, D. and Enderle, J., 3D Dynamic Modeling of The Head-Neck Complex For Fast Eye And Head Orientation Movements Research. *Modelling and Simulation in Engineering*, vol. 2011, Article ID 630506, 12 pages, 2011. doi:10.1155/2011/630506.

Kaputa, D., Price, D., and Enderle, J., A Portable, Inexpensive, Wireless Vital Signs Monitoring System. *Biomedical Instrumentation & Technology*, July/August, 75-78, 2010.

McGeary, D.C., Renouf, R.R., Zhu, Q., and Enderle, J., Engineering a Health Level Seven Standard Interface and Wireless Infrastructure to Improve the Efficiency of Electrocardiogram Analysis at Hartford Hospital. *Journal of Clinical Engineering*, Vol. 35, No. 2, 95-97, 2010.

Sierra, D. and Enderle, J., Linear Homeomorphic Models for Muscles in the Head-Neck Region. *Annals of Biomedical Engineering*, Vol. 38, No. 2, 247-258, 2010.

Zhou, W., Chen, X and Enderle, J., An Updated Time-Optimal 3rd-Order Linear Saccadic Eye Plant Model. *International Journal of Neural Systems*, Vol. 19, No. 5, 309-330, 2009.

Gassert, John, and Enderle, John, Design versus Research in BME Accreditation. *IEEE EMB Magazine*, Vol. 27, No. 2, 80-85, 2008.

Enderle, J., Senior Design for Persons with Disabilities. *IEEE EMB Magazine*, Vol. 26, No. 3, 25-29, 2006.

Kumar, R., Perdrizet, G, Enderle, J., Rewinski, M, Berman, M., and Hightower, L., Stress Proteins are Proinflammatory in vivo. Implications for Bioengineers. *IEEE EMB Magazine*, Vol. 23, No. 3, 80-84, 2004.

Enderle, J.D., Gassert, J., Blanchard, S.M., King, P., Beasley, D., Hale Jr., P. and Aldridge, D., The ABCs of Preparing for ABET, *IEEE EMB Magazine*, Vol. 22, No. 4, 122-132, 2003

Trumbower, R.D., and Enderle, J.D., Virtual Instruments in Undergraduate Biomedical Engineering Laboratories, *IEEE EMB Magazine*, Vol. 22, No. 4, 101-110, 2003

Enderle, J.D., Ropella, K.M., Kelso, D.M., Hallowell, B., Ensuring that Biomedical Engineers are Ready for the Real World. *IEEE EMB Magazine*, Vol. 21, No. 2, 59-66, 2002

Oh, J.Y., Rosow, E., Bronzino, J.D., Enderle, J.D., and Eisenfeld, L., The Design and Development of a Biosensor to Measure the Concentrations of Meconium in Amniotic Fluid. *Biomedical Instrumentation and Technology*, January-February, 2001, pp. 46-56. This paper was selected as the Outstanding Paper in the Journal *Biomedical Instrumentation and Technology* for 2002.

Enderle, J.D., An Overview on the National Science Foundation Program on Senior Design Projects to Aid Persons With Disabilities. *International Journal on Engineering Education*, Vol. 15,

No. 4, 288-297, 1999.

Bordogna, J., Herer, P., and Enderle, J.D., New Partnerships in Bioengineering Education and Research at the NSF, *IEEE-EMB Magazine*, July/August 1995: 432-438.

Enderle, J.D., A Physiological Neural Network for Saccadic Eye Movement Control. Air Force Material Command, *Armstrong Laboratory AL/AO-TR-1994-0023*, 1994: 48 pages.

Enderle, J.D., Engelken, E.J., and Stiles, R.N., A Comparison of Static and Dynamic Characteristics Between Rectus Eye Muscle and Linear Muscle Model Predictions. *IEEE Transactions on Biomedical Engineering*, 1991, Vol. BME-38, No. 12: 1235-1245.

Engelken, E.J., Stevens, K.W., and Enderle, J.D., Relationships between Manual Reaction Time and Saccade Latency in Response to Visual and Auditory Stimuli. *Aviation, Space, and Environmental Medicine*, 1991, 62: 315-318.

Staton, R.D., Enderle, J.D., et al., The Electroencephalographic Pattern During Electroconvulsive Therapy V. Observations on the Origins of Phase III Delta Energy and the Mechanism of Action of ECT. *Clinical Electroencephalography*, 1988, 19(4): 176-198.

Enderle, J.D., and Wolfe, J.W., Frequency Response Analysis of Human Saccadic Eye Movements: Estimation of Stochastic Muscle Forces. *Computers in Biology and Medicine*, 1988, 18: 195-219.

Enderle, J.D., Observations on Pilot Neurosensory Control Performance During Saccadic Eye Movements. *Aviation, Space, and Environmental Medicine*, 1988, 59: 309-313.

Enderle, J.D., and Wolfe, J.W., Time-Optimal Control of Saccadic Eye Movements. *IEEE Transactions on Biomedical Engineering*, 1987, Vol. BME-34, No. 1: 43-55.

Staton, R.D., Enderle, J.D., et al., The Electroencephalographic Pattern During Electroconvulsive Therapy IV. Spectral Energy Distributions with Methohexital, Innovar, and Ketamine Anesthetics. *Clinical Electroencephalography*, 1986, Vol. 17, No. 4: 203-215.

Enderle, J.D., Staton, R.D., et al., The Electroencephalographic Pattern During Electroconvulsive Therapy III. Analysis of Frontotemporal and Nasopharyngeal Spectral Energy. *Clinical Electroencephalography*, 1986, Vol. 17, No. 2: 66-77.

Enderle, J.D., Application of the System Identification Technique to Goal-Directed Saccades. *USAFSAM-TR-85-37*, July 1985, 23 pages.

Enderle, J.D., Wolfe, J.W., and Yates, J.T., The Linear Homeomorphic Saccadic Eye Movement Model - A Modification. *IEEE Transactions on Biomedical Engineering*, 1984, Vol. BME-31, No. 11: 717-720.

Gerst, J.W., Enderle, J.D., et al., The Electroencephalographic Pattern During Electroconvulsive Therapy II. Preliminary analysis of spectral energy. *Clinical Electroencephalography*, 1982, Vol. 13, No. 4: 251-256.

Books, Chapters, Monographs, Dissertation

Enderle, J.D., *The Fast Eye Movement Control System*. In: *The Biomedical Engineering Handbook*

Biomedical Engineering Fundamentals, Fourth Edition, ed. J. Bronzino. CRC Press, Inc., Boca Raton, FL, In Press.

Ghahari, A., and Enderle, J.D., *Models of Horizontal Eye Movements: Part 4, A Multiscale Neuron and Muscle Fiber-Based Linear Saccade Model*. Morgan & Claypool Publishers, San Rafael, CA, Synthesis Lectures on Biomedical Engineering, March 2015, 122 pages. (doi: 10.2200/S00627ED1V01Y201501BME055)

Enderle, J.D. (Editor), *National Science Foundation 2012 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2015, 395 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Ghahari, A., and Enderle, J.D., *Models of Horizontal Eye Movements- Part 3, A Neuron and Muscle Based Linear Saccade Model*. Morgan & Claypool Publishers, San Rafael, CA, Synthesis Lectures on Biomedical Engineering, October 2014, 158 pages. (doi: 10.2200/S00592ED1V01Y201408BME053)

Enderle, J.D. (Editor), *National Science Foundation 2011 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2013, 345 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D. (Editor), *National Science Foundation 2010 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2012, 391 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D. (Editor), *National Science Foundation 2009 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2011, 418 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D., *Introduction to Biomedical Engineering (Third Edition) Solutions Manual*, Elsevier, Amsterdam, 2011, 615 pages.

Enderle, J.D., and Bronzino, J.D., *Introduction to Biomedical Engineering (Third Edition)*, Elsevier, Amsterdam, 2011, 1253 pages.

Enderle, J.D. (Editor), *National Science Foundation 2008 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2011, 346 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2007 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2010, 361 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D., *Models of Horizontal Eye Movements. Part 1: Early Models of Saccades and Smooth Pursuit*, Morgan & Claypool Publishers, San Rafael, CA, 2010, 149 pages.

Enderle, J.D., and Zhou, W., *Models of Horizontal Eye Movements. Part 2: A 3rd-Order Linear Saccade Model*, Morgan & Claypool Publishers, San Rafael, CA, 2010, 144 pages.

- Enderle, J.D., *Employment Outlook and Motivation for Career Preparation*. In: *Career Development in Bioengineering and Biotechnology*. (Guruprasad Madhavan, Barbara Oakley, Luis Kun, Editors). Springer Publishing Company, USA, pages 41-49, 2008.
- Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2006 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2007, 385 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Erlandson, Robert, Enderle, John and Winters, Jack, *Educating Engineers in Universal and Accessible Design*. In *Medical Instrumentation*, Jack Winters and Molly Follette Story, editors, CRC Press, Inc., Boca Raton, FL, 2006, Chapter 8, pages 123-145.
- Enderle, J.D., *Bioinstrumentation*, Morgan & Claypool Publishers, San Rafael, CA, 2006, 212 pages.
- Enderle, J.D., Farden, D.C, and Krause, D.J., *Advanced Probability Theory for Biomedical Engineers*, Morgan & Claypool Publishers, San Rafael, CA, 2006, 105 pages.
- Enderle, J.D., Farden, D.C, and Krause, D.J., *Intermediate Probability Theory for Biomedical Engineers*, Morgan & Claypool Publishers, San Rafael, CA, 2006, 105 pages.
- Enderle, J.D., Farden, D.C, and Krause, D.J., *Basic Probability Theory for Biomedical Engineers*, Morgan & Claypool Publishers, San Rafael, CA, 2006, 124 pages.
- Enderle, J.D., *Eye Movements*. In *Wiley Encyclopedia of Biomedical Engineering* (Metin Akay, ed.) Hoboken: John Wiley & Sons, Inc., 2006. <http://dx.doi.org/10.1002/9780471740360.ebs0471>.
- Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2005 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2006, 385 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D., *The Fast Eye Movement Control System*. In: *The Biomedical Engineering Handbook Biomedical Engineering Fundamentals, Third Edition*, ed. J. Bronzino. CRC Press, Inc., Boca Raton, FL, 2006, Chapter 16, pages 16-1 to 16-21.
- Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2004 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2005, 421 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D., Blanchard, S.M. and Bronzino, J.D., *Introduction to Biomedical Engineering (Second Edition) Solutions Manual*, Elsevier, Amsterdam, 2005, 271 pages.
- Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2003 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2005, 405 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D., Blanchard, S.M. and Bronzino, J.D., *Introduction to Biomedical Engineering (Second Edition)*, Elsevier, Amsterdam, 2005, 1118 pages.

Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2002 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2004, 335 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D., Biomedical Engineering. In *2003 World Book Encyclopedia*, World Book, Inc., Chicago, IL, 2003, 324-325.

Enderle, J.D., Neural Control of Saccades. In J. Hyönä, D. Munoz, W. Heide and R. Radach (Eds.), *The Brain's Eyes: Neurobiological and Clinical Aspects to Oculomotor Research, Progress in Brain Research, V. 140*, Elsevier, Amsterdam, 2002, 21-50.

Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2001 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2002, 351 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D. (Editor), *Charting the Milestones of Biomedical Engineering*, IEEE, Piscataway, NJ, 2002, 80 pages.

Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 2000 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2002, 331 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 1999 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2001, 360 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D., and Macfarlane, L.L., *Proceedings of the Twenty-Seventh Annual Northeast Bioengineering Conference*. IEEE, Piscataway NJ, 2001, 108 pages.

Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 1998 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2000, 293 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

Enderle, J.D. (Editor), *Proceedings of the Twenty-Second Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Volume 1*. IEEE, Piscataway NJ, 2000, 857 pages.

Enderle, J.D. (Editor), *Proceedings of the Twenty-Second Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Volume 2*. IEEE, Piscataway NJ, 2000, 857 pages.

Enderle, J.D. (Editor), *Proceedings of the Twenty-Second Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Volume 3*. IEEE, Piscataway NJ, 2000, 857 pages.

Enderle, J.D. (Editor), *Proceedings of the Twenty-Second Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Volume 4*. IEEE, Piscataway NJ, 2000, 929 pages.

- Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 1997 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 2000, 297 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D., and Macfarlane, L.L, *Proceedings of the Twenty-Sixth Annual Northeast Bioengineering Conference*. IEEE, Piscataway NJ, 2000, 190 pages.
- Enderle, J.D., *The Fast Eye Movement Control System*. In: *The Biomedical Engineering Handbook Volume 2, Second Edition*, ed. J. Bronzino. CRC Press, Inc., Boca Raton, FL, 2000, Chapter 166, pages 166-1 to 166-21.
- Enderle, J.D., Blanchard, S.M., and Bronzino, J.D., *Introduction to Biomedical Engineering*. Academic Press, San Diego, California, 2000, 1062 pages.
- Enderle, J.D., Blanchard, S.M., and Bronzino, J.D., *Solutions Manual for Introduction to Biomedical Engineering*. Academic Press, San Diego, California, 2000, 201 pages.
- Enderle, J.D. and Hallowell, B. (Editors), *National Science Foundation 1996 Engineering Senior Design Projects to Aid Persons with Disabilities*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 1999, 250 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D. (Editor), *National Science Foundation 1995 Engineering Senior Design Projects to Aid the Disabled*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 1998, 333 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D. (Editor), *National Science Foundation 1994 Engineering Senior Design Projects to Aid the Disabled*. Creative Learning Press, Inc., Mansfield Center, Connecticut, 1997, 260 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D., *The Fast Eye Movement Control System*. In: *The Biomedical Engineering Handbook*, ed. J. Bronzino. CRC Press, Inc., Boca Raton, FL, 1995, Chapter 164, pages 2463-2483.
- Enderle, J.D. (Editor), *National Science Foundation 1993 Engineering Senior Design Projects to Aid the Disabled*. NDSU Press, Fargo, North Dakota, 1994, 243 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D., (Editor), *Biomedical Sciences Instrumentation - Vol. 29, Proceedings of the Thirtieth Annual Rocky Mountain Bioengineering Symposium and Twenty-Ninth International ISA Biomedical Sciences Instrumentation Symposium*. Instrument Society of America, Research Triangle Park, North Carolina, 1993, 516 pages.
- Enderle, J.D. (Editor), *National Science Foundation 1992 Engineering Senior Design Projects to Aid the Disabled*. NDSU Press, Fargo, North Dakota, 1993, 319 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)
- Enderle, J.D. (Editor), *National Science Foundation 1991 Engineering Senior Design Projects to Aid the Disabled*. NDSU Press, Fargo, North Dakota, 1991, 308 pages. (Available for viewing at: <http://nsf-pad.bme.uconn.edu>)

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Abstracts

Rodriguez Campos, F.A., Enderle, J.D., A Cerebellar Saccade Controller Implemented in Simulink, Thirteenth European Conference on Eye Movements, Bern, Switzerland, August 14-18, 2005, page 110.

RESEARCH GRANTS AND MONETARY AWARDS RECEIVED:

Baystate Medical Center: Clinical Engineering Internship Program at Baystate Medical Center. J.D. Enderle, Principal Investigator, August 20014-August 2015, **\$77,390**.

Boston VA Hospital: Clinical Engineering Internship Program at the Boston VA Hospital. J.D. Enderle, Principal Investigator, August 2014-August 2015, **\$58,969**.

Brigham and Women's Hospital: Clinical Engineering Internship Program at Brigham and Women's Hospital. J.D. Enderle, Principal Investigator, August 20013-August 2015, **\$90,288**.

Hartford Hospital: Clinical Engineering Internship Program at Hartford Hospital. J.D. Enderle, Principal Investigator, August 2014-August 2015, **\$90,288**.

John Dempsey Hospital: Clinical Engineering Internship Program at John Dempsey Hospital. J.D. Enderle, Principal Investigator, August 2014-August 2015, **\$80,761**.

Lifespan: Clinical Engineering Internship Program at the Lifespan (Rhode Island Hospital, Miriam Hospital and Newport Hospital), J.D. Enderle, Principal Investigator, August 2014-August 2015, **\$58,969**.

ABM Inc.: Clinical Engineering Internship Program at ABM. J.D. Enderle, Principal Investigator, August 2014-May 2015, **\$39,914**.

Massachusetts General Hospital, Clinical Engineering Internship Program at Massachusetts General Hospital. J.D. Enderle, Principal Investigator, August 2014-August 2015, **\$58,969**.

Middlesex Memorial Hospital, Inc.: Clinical Engineering Internship Program at Middlesex Memorial Hospital, Inc. J.D. Enderle, Principal Investigator, August 2014-May 2015, **\$39,914**.

Providence VA Medical Center: Clinical Engineering Internship Program at Providence VA Medical Center. J.D. Enderle, Principal Investigator, August 2014-May 2015, **\$39,914**.

UMass Medical Center: Clinical Engineering Internship Program at the UMass Medical Center, J.D. Enderle, Principal Investigator, August 2014-May 2015, **\$71,233**.

West Haven VA Hospital: Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, August 2014-August 2015, **\$90,288**.

Yale-New Haven Hospital: Clinical Engineering Internship Program at the Yale-New Haven Hospital. J.D. Enderle, Principal Investigator, August 2014-August 2015, **\$58,969**.

Baystate Medical Center: Clinical Engineering Internship Program at Baystate Medical Center. J.D. Enderle, Principal Investigator, August 20013-August 2014, **\$74,164**.

Boston VA Hospital: Clinical Engineering Internship Program at the Boston VA Hospital. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$56,044**.

Brigham and Women's Hospital: Clinical Engineering Internship Program at Brigham and Women's Hospital. J.D. Enderle, Principal Investigator, August 20013-August 2014, **\$86,524**.

Hartford Hospital: Clinical Engineering Internship Program at Hartford Hospital. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$86,524.**

John Dempsey Hospital: Clinical Engineering Internship Program at John Dempsey Hospital. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$77,464.**

Lifespan: Clinical Engineering Internship Program at the Lifespan (Rhode Island Hospital, Miriam Hospital and Newport Hospital), J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$37,923.**

Linc Health: Clinical Engineering Internship Program at Linc Health. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$56,044.**

Massachusetts General Hospital, Clinical Engineering Internship Program at Massachusetts General Hospital. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$86,524.**

Middlesex Memorial Hospital, Inc.: Clinical Engineering Internship Program at Middlesex Memorial Hospital, Inc. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$37,923.**

Providence VA Medical Center: Clinical Engineering Internship Program at Providence VA Medical Center. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$37,923.**

UMass Medical Center: Clinical Engineering Internship Program at the UMass Medical Center, J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$68,404.**

West Haven VA Hospital: Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, August 2013-August 2014, **\$96,515.**

West Haven VA Hospital: Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$74,268.**

UMass Medical Center: Clinical Engineering Internship Program at the UMass Medical Center, J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$82,993.**

John Dempsey Hospital: Clinical Engineering Internship Program at John Dempsey Hospital. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$74,268.**

Lifespan: Clinical Engineering Internship Program at the Lifespan (Rhode Island Hospital, Miriam Hospital and Newport Hospital), J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$33,404.**

Providence VA Medical Center: Clinical Engineering Internship Program at Providence VA Medical Center. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$33,404.**

Middlesex Memorial Hospital, Inc.: Clinical Engineering Internship Program at Middlesex Memorial Hospital, Inc. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$33,404.**

Massachusetts General Hospital, Clinical Engineering Internship Program at Massachusetts General Hospital. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$74,268**

Linc Health: Clinical Engineering Internship Program at Linc Health. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$28,632**.

Hartford Hospital: Clinical Engineering Internship Program at Hartford Hospital. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$74,268**.

Boston VA Hospital: Clinical Engineering Internship Program at the Boston VA Hospital. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$33,404**.

Brigham and Women's Hospital: Clinical Engineering Internship Program at Brigham and Women's Hospital. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$74,268**.

Baystate Medical Center: Clinical Engineering Internship Program at Baystate Medical Center. J.D. Enderle, Principal Investigator, August 2012-August 2013, **\$58,102**.

West Haven VA Hospital: Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, August 2009-August 2012, **\$473,603**.

John Dempsey Hospital: Clinical Engineering Internship Program at John Dempsey Hospital. J.D. Enderle, Principal Investigator, August 24, 2009-August 23, 2011, **\$111,064**.

Hartford Hospital: Clinical Engineering Internship Program at Hartford Hospital. J.D. Enderle, Principal Investigator, August 2010-August 2012, **\$103,804**.

Baystate Medical Center: Clinical Engineering Internship Program at Baystate Medical Center. J.D. Enderle, Principal Investigator, August 2010-August 2012, **\$140,604**.

Brigham and Women's Hospital: Clinical Engineering Internship Program at Brigham and Women's Hospital. J.D. Enderle, Principal Investigator, August 2010-August 2012, **\$124,178**.

National Science Foundation: An Annual Review of Engineering Senior Design Projects to Aid Persons with Disabilities, 2008-2012. J.D. Enderle, Principal Investigator, March 15, 2010-February 28, 2015, **\$296,068**.

National Science Foundation: Device for Tooth Cleaning in the Disabled. Shiva Kotha, Principal Investigator, and J.D. Enderle, Co-Principal Investigator, 9/09-8/11, **\$220,300**.

Massachusetts General Hospital, Clinical Engineering Internship Program at Massachusetts General Hospital. J.D. Enderle, Principal Investigator, 8/09-5/12, **\$146,892**

National Science Foundation: REU Supplement for Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, July 18, 2009 – July 17, 2010, **\$7,500**.

National Science Foundation: An Annual Review of Engineering Senior Design Projects to Aid Persons with Disabilities, 2007. J.D. Enderle, Principal Investigator, July 1, 2009-June 2010, **\$75,283**.

West Haven VA Hospital: Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, August 2008-August 2009, **\$84,807**.

Providence VA Medical Center: Clinical Engineering Internship Program at Providence VA Medical Center. J.D. Enderle, Principal Investigator, Oct. 16, 2008 - Oct. 15, 2013, **\$154,062**.

Boston VA Hospital: Clinical Engineering Internship Program at the Boston VA Hospital. J.D. Enderle, Principal Investigator, Oct. 2008-Sept. 2012, **\$237,361**.

Middlesex Memorial Hospital, Inc.: Clinical Engineering Internship Program at Middlesex Memorial Hospital, Inc. J.D. Enderle, Principal Investigator, June 16, 2008 - June 15, 2012, **\$152,131**.

West Haven VA Hospital: Summer Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, Oct. 2007-Sept. 2008, **\$54,215**.

National Science Foundation: REU Supplement for Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, July 18, 2007 - July 17, 2008, **\$7,500**.

West Haven VA Hospital: Summer Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, May 2007-August 2007, **\$20,553**.

Baystate Medical Center: Clinical Engineering Internship Program at Baystate Medical Center. J.D. Enderle, Principal Investigator, August 2007-August 2009, **\$124,856**.

John Dempsey Hospital: Clinical Engineering Internship Program at John Dempsey Hospital. J.D. Enderle, Principal Investigator, August 24, 2007-August 23, 2009, **\$101,004**.

Providence VA Medical Center: Clinical Engineering Internship Program at Providence VA Medical Center. J.D. Enderle, Principal Investigator, Oct. 16, 2006 - Oct. 15, 2008, **\$55,665**.

National Instruments: Equipment Grant for UConn's BME Laboratories. J.D. Enderle, Principal Investigator, August 2006, **\$154,850**.

Middlesex Memorial Hospital, Inc.: Clinical Engineering Internship Program at Middlesex Memorial Hospital, Inc. J.D. Enderle, Principal Investigator, August 24, 2006 - August 23, 2008, **\$53,927**.

Lifespan: Clinical Engineering Internship Program at the Lifespan (Rhode Island Hospital, Miriam Hospital and Newport Hospital), J.D. Enderle, Principal Investigator, August 24, 2006 - August 23, 2008, **\$55,150**.

National Science Foundation: REU Supplement for Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, May 1, 2006 - April 30, 2007, **\$7,500**.

UConn School of Engineering Undergraduate Teaching Laboratory Competition: Development of BME Biomedical Engineering Measurement Laboratory. J.D. Enderle, Principal Investigator, March 21, 2006, **\$39,000**.

Quantum Leap Technology: A Novel Device Using Adhered Acoustic Technology. J.D. Enderle, Principal Investigator, January 1, 2006 - December 31, 2006, **\$5,000**.

UConn School of Engineering Undergraduate Teaching Laboratory Competition: Development of BME Senior Design and Biomaterials Laboratories. J.D. Enderle, Principal Investigator, December 15, 2005, **\$60,109**.

National Science Foundation: REU Supplement for An Annual Review of Engineering Senior Design Projects to Aid Persons with Disabilities. J.D. Enderle, Principal Investigator, May 14, 2005 - May 13, 2006, **\$4,000**.

Premier, Inc.: Clinical Engineering Internship Program at Premier, Inc. J.D. Enderle, Principal Investigator, August 24, 2005 - August 23, 2007, **\$48,607**.

National Science Foundation: Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, April 27, 2005 - April 26, 2010, **\$125,000**.

Konz: Design of a Wireless Reflectance Pulse Oximeter, J.D. Enderle, Principal Investigator, December 1, 2005 - December 31, 2005, **\$15,000**.

Lifespan: Clinical Engineering Internship Program at the Lifespan (Rhode Island Hospital, Miriam Hospital and Newport Hospital), J.D. Enderle, Principal Investigator, August 23, 2003 - August 22, 2006, **\$42,682**.

UMass Medical Center: Clinical Engineering Internship Program at the UMass Medical Center, J.D. Enderle, Principal Investigator, August 23, 2003 - August 22, 2012, **\$161,860**.

MIRA, Inc.: MIRA Industrial Internship Program, J.D. Enderle, Principal Investigator, August 23, 2003 - August 22, 2005, **\$64,826**.

National Science Foundation: An Annual Review of Engineering Senior Design Projects to Aid Persons with Disabilities. J.D. Enderle, Principal Investigator, August 1, 2003 - May 30, 2008, **\$324,524**.

Joslin Diabetes Center: Industrial Internship Program in Biomedical Engineering at the Joslin Diabetes Center, J.D. Enderle, Principal Investigator, January 1, 2003-December 31, 2004, **\$26,551**.

Dept. of Education: RERC on Accessible Medical Instrumentation. PIs: Jack Winters and Molly Follette Story. November 1, 2002-October 31, 2007, \$4.5M. Subcontract to University of Connecticut. John Enderle, Principal Investigator, **\$274,260**.

National Science Foundation: REU Supplement for Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, July 24, 2002 - July 31, 2003, **\$6,000**.

IEEE-EMBS: Support for Enderle as Editor-in-Chief of *EMB Magazine*, J.D. Enderle, Principal Investigator, August 2001-December 2006, **\$184,230**.

Hartford Healthcare Corp.: Biomedical Engineering Internship Program at Hartford Healthcare Corp., J.D. Enderle, Principal Investigator, August 2001-August 2002, **\$8,000**.

West Haven VA Hospital: Clinical Engineering Internship Program at the West Haven VA Hospital. J.D. Enderle, Principal Investigator, August 2001-August 2008, **\$266,000**.

National Science Foundation: REU Supplement for Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, May 10, 2001 – May 31, 2002, **\$10,000**.

Whitaker Foundation: 27th Northeast Bioengineering Conference at the University of Connecticut. J.D. Enderle, Principal Investigator, March 1, 2001- May 30, 2001, **\$3,000**.

National Science Foundation: REU Supplement for Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, May 10, 2000 – May 31, 2001, **\$10,000**.

Whitaker Foundation: Northeast Bioengineering Conference at the University of Connecticut. J.D. Enderle, Principal Investigator, February 1, 2000- January 30, 2001, **\$10,000**.

Whitaker Foundation: Industrial Internship Program in Biomedical Engineering at the University of Connecticut. J.D. Enderle, Principal Investigator, May 1, 1999- May 24, 2003, **\$180,000**.

United Technologies Research Center: UConn BME Industrial Internship Program at United Technologies Research Center. J.D. Enderle, Principal Investigator, May 25, 1999- August 24, 2000, **\$26,971**.

National Science Foundation: REU Supplement for Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, May 7, 1999 - May 31, 2000, **\$10,000**.

National Science Foundation: An Annual Review of Engineering Senior Design Projects to Aid Persons with Disabilities. J.D. Enderle, Principal Investigator, June 1, 1998 - September 30, 2003, **\$291,412**.

National Science Foundation: Engineering Design Projects for the Disabled. J.D. Enderle, Principal Investigator, June 1, 1998 - September 30, 2003, **\$168,584**.

Neurogen Corporation: UConn Biomedical Engineering Industrial Internship Program at Neurogen. J.D. Enderle, Principal Investigator, August 1998-August 2000, **\$35,482**.

Corometrics Medical Systems: UConn Biomedical Engineering Industrial Internship Program at Corometrics. J.D. Enderle, Principal Investigator, June 1998-August 2000, **\$10,000**.

Baystate Medical Center: Clinical Engineering Internship Program at Baystate Medical Center. J.D. Enderle, Principal Investigator, August 1997-August 2007, **\$376,000**.

Bridgeport Hospital: Clinical Engineering Internship Program at Bridgeport Hospital. J.D. Enderle, Principal Investigator, August 1997-September 1999, **\$33,819**.

Hartford Hospital: Clinical Engineering Internship Program at Hartford Hospital. J.D. Enderle, Principal Investigator, August 1997-August 2009, **\$439,257**.

John Dempsey Hospital: Clinical Engineering Internship Program at John Dempsey Hospital. J.D. Enderle, Principal Investigator, August 1997-August 2007, **\$252,657**.

Yale-New Haven Hospital: Clinical Engineering Internship Program at Yale-New Haven Hospital. J.D. Enderle, Principal Investigator, August 1997-August 2001, **\$99,465**.

Whitaker Foundation: Biomedical Engineering Alliance for Central Connecticut (BEACON). J.D. Bronzino, Principal Investigator, and J.D. Enderle, Co-Principal Investigator, January 1, 1997-June 30, 2001, **Total Award \$1,000,000, UCONN Storrs Portion of Award \$328,200.**

National Science Foundation: Design Projects for the Handicapped. D.J. Krause, Principal Investigator, J.D. Enderle, Co-Principal Investigator, D.L. Ewert, Co-Principal Investigator, July 1994 - July 1997, **\$44,145.**

Whitaker Foundation: IEEE-EMBS Whitaker Foundation Undergraduate Student Design Competition. J.D. Enderle, Principal Investigator, September 1, 1994 - August 30, 1999, **\$21,000.**

National Science Foundation: An Annual Review of Projects to Aid the Disabled. J.D. Enderle, Principal Investigator, April 1, 1993 - September 1998, **\$122,715.**

Recipient of the 1992-93 NDSU Fargo Chamber of Commerce Distinguished Professorship Award, September 1992, **\$5,000.**

Recipient of the 1991-92 NDSU Burlington Northern Foundation Faculty Achievement Award for Outstanding Accomplishments Service and Teaching, May 1992, **\$2,500.**

Air Force Office of Scientific Research: Oculomotor Control. J.D. Enderle, Principal Investigator, June 1, 1992 - September 30, 1993, **\$32,023.**

Recipient of the Mikol Award for Best Paper for 1990; Functional Senior Design Projects for the Disabled. 1990 Annual Meeting of the North-Midwest Section of the American Society for Engineering Education, **\$100.**

Whitaker Foundation: IEEE-EMBS Whitaker Foundation Student Paper Competition. J.D. Enderle, Principal Investigator, Cedric F. Walker, Co-Principal Investigator, October 1, 1992 - September 30, 1997, **\$50,000.**

National Science Foundation: Research Experiences for Undergraduates. J.D. Enderle, Principal Investigator, D.J. Krause, Co-Principal Investigator, J.L. Rawson, Co-Principal Investigator, March 1, 1989 - September 1991, **\$10,000.**

Department of Defense: Instrumentation for Recording and Analyzing Multiple Input/Output Saccadic Eye Movement Neurosensory Control. J.D. Enderle, Principal Investigator, December 1988, **\$23,000.**

Air Force Office of Scientific Research: Multiple Input-Multiple Output Saccadic Eye Movement Neurosensory Control. J.D. Enderle, Principal Investigator, E.J. Engelken, Co-Principal Investigator, October 1, 1988 - September 30, 1991, **\$231,000.**

National Science Foundation: A Textbook on Engineering Senior Design Projects for the Handicapped. J.D. Enderle, Principal Investigator, October 1, 1988 - September 1993, **\$120,200.**

National Science Foundation: Design Projects for the Handicapped. D.J. Krause, Principal Investigator, J.D. Enderle, Co-Principal Investigator, June 1, 1988 - September 1994, **\$82,000.**

Recipient of the 1988 Sigma Xi Award for Outstanding Research in the North Dakota State

University Chapter, March 22, 1988, **\$500.**

The Neuropsychiatric Institute: A Comparison of Two Neurological Control Strategies During Saccadic Eye Movements. J.D. Enderle, Principal Investigator, September 1986 - September 1987, **\$5,000.**

Brooks Air Force Base: Processing of Eye Movement Data. J.D. Enderle, Principal Investigator, October 1984 - May 1986, **\$27,000.**

Brooks Air Force Base: Application of Pattern Recognition Techniques in the Processing of Eye Movement Data. J.D. Enderle, Principal Investigator, February 1984 - February 1985, **\$18,837.**

Air Force Office of Scientific Research: Application of the System Identification Technique to Goal-Directed Saccades. J.D. Enderle, Principal Investigator, June 1983 - May 1984, **\$12,000.**

American Diabetes Association in North Dakota: Estimation of Peripheral Insulin Sensitivity and Insulin Release: Comparison of Minimal Model Parameter Estimation and Euglycemic Clamp. W.P. Newman, Principal Investigator, J.D. Enderle, Co-Investigator, September 1982 - September 1983, **\$9,839.**

1982 USAF Summer Faculty Research Program sponsored by Air Force Office of Scientific Research conducted by Southeastern Center for Electrical Engineering Education under contract F49620-82-C-0035, J.D. Enderle, Participant, June 1982 - September 1982, **\$7,200.**

University of North Dakota Medical School: Power Spectral Analysis of the EEG in Alcoholics. C. Barr, Principal Investigator, J.D. Enderle, Co-Principal Investigator, December 1981 - December 1982, **\$3,950.**