

KENAN HATIPOGLU

West Virginia University Institute of Technology
Department of Electrical and Computer Engineering
410 Neville Street, Beckley, West Virginia 25801
Office: (304) 929 - 1632, Kenan.Hatipoglu@mail.wvu.edu

EDUCATION

- Ph.D.** Electrical Engineering, Tennessee Tech University, Cookeville, Tennessee,
September 2009 - August 2013
- M.S.** Electrical Engineering, University of Louisville, Louisville, Kentucky,
August 2007 - December 2008
- B.S.** Electrical Engineering and Technical Education, Marmara University, Istanbul, Turkey,
September 2001 - June 2005
-

ACADEMIC EXPERIENCE

Associate Professor, Department of Electrical and Computer Engineering,
West Virginia University Institute of Technology, Beckley, West Virginia,
May 2020 – Present

IDEA (Innovation, Design, Entrepreneurship, Applied) Faculty Fellow,
West Virginia University, Morgantown, West Virginia,
April 2019 – Present

Assistant Professor, Department of Electrical and Computer Engineering,
West Virginia University Institute of Technology, Beckley, West Virginia,
August 2014 – May 2020

Visiting Assistant Professor, Department of Electrical and Computer Engineering,
West Virginia University Institute of Technology, Montgomery, West Virginia,
August 2013 – May 2014

Graduate Research Assistant, Center for Manufacturing Research,
Tennessee Tech University, Cookeville, Tennessee,
August 2009 – July 2013

Engineering Student Assistant, Electrical and Computer Engineering Department,
University of Louisville, Louisville, Kentucky,
August 2007 – December 2008

Teaching Intern,

Haydarpasa Technical High School,
Istanbul, Turkey,
September 2004 – June 2005

Batman Technical High School,
Batman, Turkey,
February 2002 – June 2002

NON-ACADAMIC EXPERIENCE

Visiting Faculty Member, Electrical and Electronics Systems Research (EESR) Division - Power and
Energy Systems Research Group, **Oak Ridge National Laboratory**, Oak Ridge, Tennessee,
June 2018 – August 2018 and June 2019 – August 2019

Computer Control Engineer, United Parcel Service of America, Inc. (UPS),
Louisville, Kentucky, February 2009 – September 2009

Engineering Intern, PEDAS A.S., Electrical Lighting Equipment Manufacturing Department,
Istanbul, Turkey, June 2003 – Sep 2003

PUBLICATIONS

Peer-Reviewed Publications

- 1) **Hatipoglu, Kenan;** Olama, Mohammed; Xue, Yaosuo; "Model-Free Dynamic Voltage Control of a DER-Based Microgrid", *Energies*, In-review.
- 2) Garner, Catherine; Rambo-Hernandez, Karen; Lu, Mingyu; Naz, Afrin; **Hatipoglu, Kenan;** "You Want Me to Teach Engineering? Rural Teachers Incorporate Engineering Standards through Project-Based Learning" *International Journal of Technology and Design Education*, In-review.
- 3) **Hatipoglu, Kenan;** Olama, Mohammed; Xue, Yaosuo; (2020) "Model-Free Dynamic Voltage Control of a Synchronous Generator-Based Microgrid", *IEEE Innovative Smart Grid Technologies (ISGT) Conference*, Feb. 17 -21, 2020, Washington, DC.
- 4) Beckett, Jonathan; Hysell, Christopher; Jones, Matthew; **Hatipoglu, Kenan;** Davari, Asad; (2020), "Dynamic DC Motor Excitation Controller", *IEEE SoutheastCon 2020*, Raleigh, NC.
- 5) McCaskill, Angela; Panta, Yogen; **Hatipoglu, Kenan;** Rai, Sanish; (2019) "Faculty Cohort on Teaching and Learning at WVU Tech", *Proceedings of the West Virginia Academy of Science*, Volume: 91, Issue 1. March, 2019.
- 6) **Hatipoglu, Kenan;** Panta, Yogendra; (2019) "Deployment of E-Learning modules to foster entrepreneurial mindset among engineering students at WVU Tech", *Proceedings of the West Virginia Academy of Science*, Volume: 91, Issue 1. March, 2019.
- 7) Panta, Yogendra; **Hatipoglu, Kenan;** (2019) "Implementation of "E-Learning modules-entrepreneurial mindset in engineering" to Foster Teaching and Learning Environment at WVU Tech", *Proceedings of the West Virginia Academy of Science*, Volume: 91, Issue 1. March, 2019.
- 8) **Hatipoglu, Kenan;** Xue, Yaosuo; (2018) "Dynamic Distribution Voltage Stability Control Using Distributed Energy Resources for Improved Resiliency", *IEEE Electronic Power Grid, 2018 (eGrid 2018)*, *Proceedings of Institute of Electrical and Electronics Engineers*, Page(s): 1 - 6.
- 9) Bottenfield, Gregory; **Hatipoglu, Kenan;** Panta, Yogendra; (2018) "Advanced Rail Energy and Storage - Analysis of Potential Implementations for the State of West Virginia", *50th North American Power Symposium, 2018*, *Proceedings of IEEE*. Page(s): 1 - 4.
- 10) **Hatipoglu, Kenan;** Panta, Yogendra; Bottenfield, Gregory; (2018) "Feasibility Analysis of Advanced Rail Energy Generation and Storage Technology Implementation for State of West Virginia", *Proceedings of the West Virginia Academy of Science*, Volume: 90, Issue: 1, April, 2018.
- 11) Panta, Yogendra; **Hatipoglu, Kenan;** (2018) "Implementation of Active Learning Pedagogies to Foster Teaching and Learning Environment", *Proceedings of the West Virginia Academy of Science*, Volume: 90, Issue: 1, April, 2018.
- 12) Parker, Brandon; Blevins, Steven; Facemire, Michael; **Hatipoglu, Kenan;** (2017) "The Effects of Variable Speed Wind Turbines on a 21 Bus Power System", *SoutheastCon, 2017*. *Proceedings of IEEE*, Page(s): 1 - 8. **DOI:** 10.1109/SECON.2017.7925362

- 13) Ruth, Jeremy; Hayes, Matt; Ramirez, Daniel; **Hatipoglu, Kenan**; (2017) "An Overview of Photoelectrochemical Cells (PEC)", SoutheastCon, 2017. Proceedings of IEEE. Page(s): 1 - 6. **DOI:** 10.1109/SECON.2017.7925359
- 14) Belcher, Bryce; Petry, Benjamin J.; Davis, Trevor; **Hatipoglu, Kenan**; (2017) "The Effects of Major Solar Integration on a 21 Bus Power System", SoutheastCon, 2017. Proceedings of IEEE. Page(s): 1 - 8. **DOI:** 10.1109/SECON.2017.7925361
- 15) **Hatipoglu, Kenan**; Lu, Mingyu; Naz, Afrin; Panta, Yogendra M.; and Blevins, S. K.; (2017) "Development of an integrated electro-mechanical energy conversion system to support undergraduate electrical engineering curriculum", 124th ASEE Annual Conference & Exposition, Columbus, Ohio, June 2017.
- 16) Sozinho, Felipe A.; **Hatipoglu, Kenan**; Eslami-Amirabadi, Yadollah; Davari, Asadollah; (2017) "Hardware Implementation of a Microgrid Controller for Enhancing Dynamic Voltage Stability", 49th North American Power Symposium, 2017, Proceedings of IEEE. Page(s): 1 - 7. **DOI:** 10.1109/NAPS.2017.8107169
- 17) **Hatipoglu, Kenan**; Lu, Mingyu; Naz, Afrin; Panta, Yogendra M.; and Blevins, S. K.; (2017) "Implementation of Integrated Electro-mechanical Energy Conversion System at WVU Tech", Proceedings of the West Virginia Academy of Science, Volume: 89, Issue: 1, April, 2017.
- 18) Panta, Yogendra M.; **Hatipoglu, Kenan**; (2017) "Fluid Power Activities in College-Level Fluid Mechanics Teaching", Proceedings of the West Virginia Academy of Science, Volume: 89, Issue: 1, April, 2017.
- 19) Noel, Daniel; Sozinho, Felipe; Wilson, Dwight; **Hatipoglu, Kenan**; (2016) "Analysis of Large Scale Photovoltaic Power System Integration into the Existing Utility Grid Using PSAT" Southeastcon, 2016. Proceedings of IEEE. Page(s): 1 - 7. **DOI:** 10.1109/SECON.2016.7506673
- 20) Sozinho, Felipe; **Hatipoglu, Kenan**; (2016) "Comparison of IGBT Modules – Focus on High Power Systems", Southeastcon, 2016. Proceedings of IEEE. Page(s): 1 – 5. **DOI:** 10.1109/SECON.2016.7506651
- 21) Lynch, Barrett; Kiger, Adam; **Hatipoglu, Kenan**; (2016) "An Overview of Hydrogen Electrical Energy Storage: Meeting Energy Demand with Intermittent Renewable Resources", Southeastcon, 2016. Proceedings of IEEE. Page(s): 1 - 6. **DOI:** 10.1109/SECON.2016.7506664
- 22) Naz, Afrin; Lu, Mingyu; **Hatipoglu, Kenan**; Rambo-Hernandez, Karen; (2016) "STEM Summer Academy for Girls" 2016 ASEE Annual Conference.
- 23) Naz, Afrin; Lu, Mingyu; **Hatipoglu, Kenan**; Rambo-Hernandez, Karen; (2016) "Employing project-based learning to address the Next Generation mathematics standards in high schools", 2016 IEEE Frontiers in Education Conference (FIE), Pages: 1-5.
- 24) Higginbotham, W. Jarrod; **Hatipoglu, Kenan**; (2015) "Undergraduate Alternative Energy Resources Research Project: A Short Investigation of the Net-Zero Energy House" American Society of Engineering Education (ASEE) North Central Section (NCS) Conference, Cincinnati, OH, April 17-18.
- 25) Sizemore, Zachary; **Hatipoglu, Kenan**; (2015) "Undergraduate Research Project: Unified Power Flow Controller Cost and Efficiency Comparison to Other FACTS Devices" ASEE NCS Conference, Cincinnati, OH, April 17-18.
- 26) **Hatipoglu, Kenan**; Fidan, Ismail; (2014) "MATLAB based GUI to Investigating Effect of Voltage Changes on Static ZIP Load Model in a Microgrid", Southeastcon, 2014. Proceedings of Institute of Electrical and Electronics Engineers (IEEE). Page(s): 1 – 5.

- 27) Bays, Nathan; Clifton, Jared; **Hatipoglu, Kenan**; (2014) "MATLAB-Graphical User Interface to Study Partial Shading of PV Array Characteristics" Southeastcon, 2014. Proceedings of IEEE. Page(s): 1 – 4. **DOI:** 10.1109/SECON.2014.6950643
- 28) **Hatipoglu, Kenan**; Fidan, Ismail; Radman, Ghadir; (2013); "Dynamic voltage stability enhancement of a MicroGrid having static and dynamic loads using MicroGrid Voltage Stabilizer", International Journal of Modern Engineering Research (IJMER), Vol.3, Issue. 6, Nov – Dec. 2013, Page(s): 3740 – 3745.
- 29) **Hatipoglu, Kenan**; Cakir, Gokhan; Fidan, Ismail; (2013); "Implementation of Faults in a Microgrid Environment with MATLAB based GUI" Southeastcon, 2013. Proceedings of IEEE, Page(s): 1 – 6. **DOI:** 10.1109/SECON.2013.6567372
- 30) Cakir, Gokhan; **Hatipoglu, Kenan**; Radman, Ghadir; (2013); "Determination of the Best Location and Performance Analysis of STATCOM for Damping Oscillation" Southeastcon, 2013. Proceedings of IEEE, Page(s): 1 – 5. **DOI:** 10.1109/SECON.2013.6567364
- 31) **Hatipoglu, Kenan**; Fidan, Ismail; Radman, Ghadir; (2012); "Investigating Effect of Voltage Changes on Static ZIP Load Model in a Microgrid Environment" North American Power Symposium (NAPS) 2012. Proceedings of IEEE, Page(s): 111 – 117. **DOI:** 10.1109/NAPS.2012.6336407
- 32) **Hatipoglu, Kenan**; Jamahbozorg, Arash; Radman, Ghadir; (2011); "MATLAB-based fault analysis of Power Systems with Graphical User Interface as an educational tool" Southeastcon, 2011. Proceedings of IEEE, Page(s): 354 – 358. **DOI:** 10.1109/SECON.2011.5752965
- 33) Choate, D. Lisa, **Hatipoglu, Kenan**, Fidan, Ismail & Abdelrahman M., (2011); "RET project in additive manufacturing". 2011 ASEE Annual Conference & Exposition, Vancouver, Canada.
- 34) **Hatipoglu, Kenan**; Lu, Mingyu; Naz, Afrin; Panta, Yogendra (Work in-Progress) "Enhancing the Electromechanical Energy Conversion Systems Lecture via Reconfigurable Dissectible Machine Demonstrations" targeted to International Journal of Electrical Engineering Education.

Peer-Reviewed Conference Presentations

- 1) **Hatipoglu, Kenan** (2020), "Dynamic DC Motor Excitation Controller", IEEE SoutheastCon, Raleigh, NC, March 28.
- 2) **Hatipoglu, Kenan** (2018) "Dynamic Distribution Voltage Stability Control Using Distributed Energy Resources for Improved Resiliency", eGrid 2018, Charleston, SC, November 14.
- 3) **Hatipoglu, Kenan** (2018) "Advanced Rail Energy and Storage - Analysis of Potential Implementations for the State of West Virginia", 50th North American Power Symposium, Fargo, ND, Sept 2018.
- 4) **Hatipoglu, Kenan** (2017) "Development of an integrated electro-mechanical energy conversion system to support undergraduate electrical engineering curriculum", 124th ASEE Annual Conference & Exposition, Columbus, OH, June 2017.
- 5) **Hatipoglu, Kenan** (2016) "Hydrogen Electrical Energy Storage: Meeting Energy Demand with Intermittent Renewable Resources", IEEE Southeastcon, Norfolk, VA, April 2.
- 6) **Hatipoglu, Kenan**; (2015) "Undergraduate Alternative Energy Resources Research Project: A Short Investigation of the Net-Zero Energy House" ASEE NCS Conf. Cincinnati, OH, April 17.
- 7) **Hatipoglu, Kenan**; (2015) "Undergraduate Research Project: Unified Power Flow Controller Cost and Efficiency Comparison to Other FACTS Devices" ASEE NCS Conference, Cincinnati, OH,

April 17.

- 8) **Hatipoglu, Kenan** (2014), "Investigating Effect of Voltage Changes on Static ZIP Load Model in a Microgrid with MATLAB based GUI" and "MATLAB-Graphical User Interface to Study Partial Shading of PV Array Characteristics" IEEE Southeastcon, Lexington, KY, March 15.
- 9) **Hatipoglu, Kenan** (2014) "MATLAB-Graphical User Interface to Study Partial Shading of PV Array Characteristics" IEEE Southeastcon, Lexington, KY, March 15.
- 10) **Hatipoglu, Kenan** (2013), "*Implementation of Faults in a Microgrid Environment with MATLAB based GUI*" IEEE Southeastcon, Jacksonville, FL, April 5.
- 11) Haines, David; **Hatipoglu, Kenan** (2012), "*Golden Ratio*", Tennessee Academy of Science 122nd meeting, Vanderbilt University, Nashville, TN, November 16. 1st place Poster Award of the Conference and abstract of the poster is published at the Tennessee Academy of Science Journal.
- 12) **Hatipoglu, Kenan** (2012), "Design Your Dream Game Room", Presented at Tennessee Academy of Science 122nd meeting, Vanderbilt University, Nashville, TN, November 16. 3rd place Poster Award of the Conference and abstract of the poster is published at the Tennessee Academy of Science Journal.
- 13) **Hatipoglu, Kenan** (2012), "Investigating Effect of Voltage Changes on Static ZIP Load Model in a Microgrid Environment" North American Power Symposium, Urbana, IL, September 10.
- 14) **Hatipoglu, Kenan** (2011), "MATLAB-based fault analysis of Power Systems with Graphical User Interface as an educational tool" IEEE Southeast Conference, Nashville, TN, March 18.

Professional Development Activities

- Price-Babson Symposium for Entrepreneurship Educators Workshop, Boston, MA. May 27, 2019 - May 31, 2019.
- Certificate in Effective College Instruction (ACUE), The Association of College and University Educators (ACUE) and the American Council on Education, October 2019.
- NSF S-STEM Capacity Building Workshop, Rice University, Houston, TX. January 31, 2019 - February 1, 2019.
- Oak Ridge National Laboratory – Visiting Faculty Member - Summer of 2018 and Summer of 2019, Oak Ridge, TN.
- IEEE Electronic Power Grid Workshop, eGrid, November 14, 2018, Charleston, SC.
- IEEE Region 2 – Winter Meeting, February 23-25, 2018, Bethlehem, PA.
- ABET Fundamentals of Program Assessment Workshop, April 22, 2017, Baltimore, MD.
- NSF Proposal Writing Workshop, August 6-9, 2017, Ashland University, Ashland, OH.
- ETAP 154 Arc Flash Hazard Analysis Workshop, August 14-17, 2017, Chattanooga, TN.
- 124th ASEE Annual Conference & Exposition, Columbus, OH, June 25 - 28 2017.
- IEEE NAPS (North American Power Symposium).
9-11 September 2018, Fargo, ND, Served as Session Chair.
17-19 September 2017, Morgantown, WV, - **Served as Technical Committee Program Chair**
9-11 September 2012, Urbana, IL.
26-28 September 2010, Arlington, TX.

- IEEE SoutheastCon,
Power and Sustainable Energy Group, March 30 - April 2, 2017, Charlotte, NC.
Power and Sustainable Energy Group, March 30 – April 3, 2016, Norfolk, VA.
Solar Energy and Micro Grid Group, March 15, 2014, Lexington, KY.
Power and Sustainable Energy Group, April 4, 2013. Jacksonville, FL.
Power and Sustainable Energy Group, 17-20 March 2011, Nashville, TN.
- IEEE Region 2 SAC Conference,
April 6-8, 2018, University of Pittsburgh, Pittsburgh, PA.
April 7-9, 2017, Rowan University, Glassboro, NJ.
April 8-10, 2016, Cleveland State University, Cleveland, OH.
April 11-12, 2015, Ohio State University, Columbus, OH.
- ASEE National Effective Teaching Institute (NETI-1B), January 6-8, 2016, San Diego, CA.
- NSF/NAE Faculty/Industry Workshop: Reforming Electric Energy Systems Curriculum with Emphasis on Sustainability, April 9-10, 2015, NAS Building, Washington, DC.
- ASEE NCS Conference, Cincinnati, OH, April 17-18, 2015.
- NSF – CAREER Award Proposal Workshop at WVU Main Campus, Morgantown, WV, 2014.
- ProMat 2013, Supply chain, manufacturing, distribution trade show and educational conference, Chicago, IL, 23 January 2013.
- MODEX 2012, Solutions That Move Supply Chains and educational conference, Atlanta, GA, 10 February 2012.
- Smart Grid Work Shop 2011: University of Tennessee, Chattanooga, TN, 12 October 2011.
- CCLI-TUES (Course, Curriculum, and Laboratory Improvement - Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics) Conference, Washington, DC, 23-25 January 2011.

TEACHING AT WVU TECH

- Fall semesters of 2013, 2014, 2015, 2016, 2017, 2018, 2019
EE436 Power System Analysis
EE434 Alternative/Renewable Energy Resources
- Spring semesters of 2014, 2015, 2016, 2017, 2018, 2019, 2020
EE435 Introduction to Power Electronics
EE335 / EE336 Electromagnetic Energy Conversion Systems / Lab
EE405 Protective Relaying
- Fall semesters of 2017, 2018, 2019
EE200 Software Tools and Laboratory

PROFESSIONAL AFFILIATIONS / ACTIVITIES

- IEEE West Virginia Section Chair, 2018 – Present.
- IEEE West Virginia Section Secretary, 2014 – 2017.
- Faculty Advisor of IEEE West Virginia University Institute of Technology Student Branch,

2014 – 2018.

- IEEE NAPS (North American Power Symposium), Technical Committee Program Chair, 17-19 September 2017, Morgantown, WV.
- Senior member of IEEE and IEEE Power & Energy Society member, 2009 – Present.
- Reviewer for IEEE Transactions on Sustainable Energy, Transactions on Power Systems, Power and Energy Technology Systems Journal, SoutheastCon, PECE and NAPS.
- American Society of Engineering Education member, 2014 – Present.
- Sigma Xi, Scientific Research Society member, 2013.
- Tennessee Tech University Engineering Joint Council (EJC) Representative for Society of Manufacturing Engineers (SME) – 2013.
- Vice President of SME Tennessee Tech University Student Chapter, 2011 – 2012.
- Society of Manufacturing Engineers member (SME), 2009 – 2013.
- Electrical Energy Society Student Branch member at Marmara University, Turkey, 2002 – 2005.

AWARDS AND GRANTS

- Department of Energy (DoE) Visiting Faculty Program: Oak Ridge National Laboratory Visiting Faculty Member, funded by DoE, - \$15,000, 06/03/2019 – 08/09/2019, PIs: **Kenan Hatipoglu** and Yaosuo Xue.
- IDEA (Innovation, Design, Entrepreneurship Applied) Fellowship, funded by West Virginia University provost office, \$5,000, 2019-2020, PI: **Kenan Hatipoglu**.
- Department of Energy (DoE) Visiting Faculty Program: Oak Ridge National Laboratory Visiting Faculty Member, funded by DoE, - \$15,000, 06/04/2018 – 08/10/2018, PIs: **Kenan Hatipoglu** and Yaosuo Xue.
- Improving Teacher Quality Grant: “Improving Middle School Math Education through Project-based Learning”, funded by West Virginia Higher Education Policy Commission (WV-HEPC), \$61,629, 02/21/2017 – 10/01/2018, PIs: Afrin Naz, Mingyu Lu, **Kenan Hatipoglu**, and Karen Rambo-Hernandez.
- NASA Faculty Research Enhancement Grant: “Feasibility Analysis of Advanced Rail Energy Generation and Storage Technology Implementation for State of West Virginia” funded by NASA WV Space Grant Consortium, \$3,000, 10/01/2017 – 05/16/2018, PIs: **Kenan Hatipoglu** and Yogendra Panta.
- 2017 Toyota Motor Manufacturing: “STEM Summer Academy for Girls”, funded by Toyota Motor Manufacturing West Virginia, \$20,000, 07/01/2017 – 06/30/2018, PIs: Afrin Naz, Mingyu Lu, Kimberly Gray, and **Kenan Hatipoglu**.
- Kern Entrepreneurial Engineering Network (KEEN) Mini-Grant: Deploying e-learning module on “Applying systems thinking to solve complex problems to an undergraduate engineering course”, funded by KEEN, \$2,000 + travel grant of \$750, 07/01/2017 – 12/14/2017, PI: **Kenan Hatipoglu**.
- Improving Teacher Quality Grant: “Employing Project-Based Learning to Address the Next Generation Science Standards in Middle Schools” funded by *WV-HEPC*, \$69,930, 03/20/2016 – 10/01/2017, PIs: Afrin Naz, Mingyu Lu, **Kenan Hatipoglu** and Karen Rambo-Hernandez.

- Instrumentation Grant: “Developing an Integrated Electro-mechanical Energy Conversion System”, funded by *WV-HEPC*, \$20,000, 01/01/2016 – 12/31/2016, Pls: **Kenan Hatipoglu**, Mingyu Lu, Yogendra Panta and Afrin Naz.
- Toyota Motor Manufacturing: “STEM Summer Academy for Girls”, funded by West Virginia Toyota Motor Manufacturing, \$30,000, 03/19/2016 – 03/18/2017, Pls: Afrin Naz, Mingyu Lu, Kimberlyn Gray, and **Kenan Hatipoglu**.
- Complete Classroom Audio Visual Technology Workstand, funded by WVU Teaching & Learning Commons, \$2,000, 05/17/2016 – 05/16/2017, Pls: Yogendra Panta, **Kenan Hatipoglu**.
- Google CS4HS Grant – Computer Science for High School Program, \$35,000, 4/01/2016 – 3/31/2017, Pls: Afrin Naz, Mingyu Lu, **Kenan Hatipoglu**.
- Improving Teacher Quality Grant: “Improving High School Teachers STEM knowledge and skills”, funded by *WV-HEPC*, \$61,625, 03/20/2015 – 10/01/2016, Pls: Afrin Naz, Mingyu Lu, **Kenan Hatipoglu** and Karen Rambo-Hernandez.
- Google CS4HS Grant – Computer Science for High School Program, \$35,000, 4/01/2014 – 3/31/2015, Pls: Afrin Naz, Mingyu Lu, **Kenan Hatipoglu**, Naveed Zaman.
- Graduate Research Assistantship - **Tennessee Tech University** - Center for Manufacturing Research, \$63,600, September 2009 – May 2013.
- **Lee Severy Scholarships** - SME Chapter 43 (\$3,000), September 2010 - August 2012.
- **Tennessee Tech University** – Electrical and Computer Engineering Department travel grand to attend IEEE SoutheastCon 2011, Nashville, TN, March 2011 and visit Oak Ridge National Lab. Oak Ridge, TN, November 2011.
- **Tennessee Tech University** - Center for Manufacturing Research (\$1,500) and stipend increase after being recognized as a research group that is performing at an exceptional level for year 2010.

PERSONAL SKILLS AND ABILITIES

Engineering Tools

- MATLAB – Simulink – PSAT (Power System Analysis Toolbox)
- National Instruments - Laboratory Virtual Instrumentation Engineering Workbench LabVIEW
- ETAP
- AutoCAD - SolidWorks in 3D Design
- Microsoft Office (Excel, Word, PowerPoint)
- Xilinx ISE 9.1

Languages

- Turkish (Native)
- English (Fluent)