

TAUFIK

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EDUCATION

Doctor of Engineering, Electrical Engineering, Cleveland State University, May 1999
Emphasis: Power Electronics and Power Systems
Dissertation: Parallel AC-AC Converters with Master/Slave Control

Master of Science, Electrical Engineering and Computer Science, University of Illinois at Chicago, May 1995
Thesis: Theory of Rectangular Waveguide Filled with Bianisotropic Material

Bachelor of Science, Electrical Engineering & minor in Computer Science, Northern Arizona University, May 1993
Graduated with Honors (Cum Laude, Tau Beta Phi, Phi Kappa Phi)
Final Project: Piezoelectric Amplifier for Telescope Viewing Stabilization

PROFESSIONAL AFFILIATIONS

- Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, American Society of Engineering Education (ASEE)

ACADEMIC EXPERIENCE

06/09 – present Professor of Electrical Engineering, Cal Poly State University, California, USA
09/11 – present Director of Electric Power Institute, Cal Poly State University, California, USA
08/04 – 06/09 Associate Professor of Electrical Engineering, Cal Poly State University, California, USA
08/99 – 07/04 Assistant Professor of Electrical Engineering, Cal Poly State University, California, USA
09/97 – 05/99 Research Assistant to Power Electronics Lab, Cleveland State University, Ohio, USA
08/96 – 08/97 Teaching Assistant to Control Systems Lab, Cleveland State University, Ohio, USA
01/96 – 08/96 Research Assistant to Microelectronics Laboratory, University of Illinois Chicago, Illinois, USA
01/94 – 12/95 Graduate Assistant to English Department, University of Illinois Chicago, Illinois, USA

INDUSTRY EXPERIENCE

- Engineering Consultant, Distributed Energy Resources, San Diego Gas & Electric, California, 07/20 – present
- Engineering Consultant, Substation Engineering, San Diego Gas & Electric, California, 01/19 – 02/20
- Summer Faculty Fellow, Distributed Energy Resources, San Diego Gas & Electric, California, 06/25 – 08/31
- Engineering Consultant, NV5, California, 03/17 – 08/17
- Summer Faculty Fellow, Substation Engineering & Design, San Diego Gas & Electric, California, 06/16 – 09/16
- Engineering Consultant, Sempra Energy, California, 07/14 – 06/15
- Engineering Consultant, Partoe Inc., Berkeley, California, 07/09 – 07/14
- Summer Faculty Fellow, Innovation and Technology, San Diego Gas & Electric, California, 06/12 – 09/12; 06/13 – 09/13
- Engineering Consultant, Enerpro Inc., Goleta, California, 06/09 – 06/10
- Engineering Consultant, Diodes Inc., Westlake Village, California, 09/07 – 09/08
- Summer Faculty Fellow, Transmission Engineering, San Diego Gas & Electric, California, 06/08 – 09/08
- Summer Faculty Fellow, APD Semiconductor, Redwood City, California, 07/06 – 09/06
- Summer Faculty Fellow, Power Quality, San Diego Gas & Electric, San Diego, California, 06/05 – 09/05
- Engineering Consultant, Rantec Power Systems, Inc., Los Osos, California, 06/02 – 06/04
- Summer Faculty Fellow, Transmission Planning, San Diego Gas & Electric, San Diego, California, 07/01 – 09/01
- Engineering Intern, Power Electronics Group, Capstone Turbine Corporation, Tarzana, California, 05/97 – 08/97
- Engineering Technician, Power Electronics Group, Picker International, Cleveland, Ohio, 09/98 – 06/99
- Hardware Engineer, Fast Ethernet Module Group, Rockwell Automation - Allen Bradley, Cleveland, Ohio, 01/97 – 09/98

AWARDS & RECOGNITIONS

STATE AND NATIONAL:

- 2019 Outstanding Achievement Award - In Recognition and Appreciation of the Research Contributions to the Field of Power Electronics, presented at the 2019 International Conference on Computational Science and Computational Intelligence, Las Vegas, December 2019.
- 2013 Power Engineering Society Chapter Outstanding Engineer Award, IEEE Central Coast Section
- 2012 Outstanding Teaching Award, American Society of Engineering Education – Pacific Southwest Region

UNIVERSITY:

- 2018 Distinguished Scholarship Award, Cal Poly State University, San Luis Obispo
- 2005 – 2006 Outstanding Faculty Advisor Award, Recipient Academic Advising Council, Cal Poly, SLO

COLLEGE OF ENGINEERING:

- 2018 Don and Paula Heye Annual Award for Outstanding Club Advisement, College of Engineering, Cal Poly State University, San Luis Obispo.

- 2014 Outstanding Professor, College of Engineering, Cal Poly State University, SLO.
- 2005 Professor of The Year, Society of Hispanic Professional Engineers , Cal Poly, SLO
- 2005 Lockheed Martin "Most Supportive Professor", Society of Women in Engineering, Cal Poly, SLO

ELECTRICAL ENGINEERING DEPARTMENT (PARTIAL LIST):

- AY 13–14, 15–16, 16–17, 17–18, 18–19, 19–20, 20–21 Recipient of Hood Endowed Professorship, EE Department, Cal Poly, SLO
- 2014 – 2015 The Most Influential Professor, IEEE Student Branch and EE Department, Cal Poly, SLO
- 2009 – 2010 Favorite Professor, IEEE Student Branch and EE Department, Cal Poly, SLO
- 2008 – 2009 Favorite Professor, IEEE Student Branch and EE Department, Cal Poly, SLO
- 2007 – 2008 Professor With Best Class Projects, IEEE Student Branch and EE Department, Cal Poly, SLO
- 2006 – 2007 Best Overall Professor, IEEE Student Branch and EE Department, Cal Poly, SLO
- 2005 – 2006 Most Outstanding Lecturer, Electrical Engineering Department, Cal Poly, SLO
- 2004 – 2005 Best EE Lab Instructor, Electrical Engineering Department, Cal Poly State University, SLO
- 2003 – 2004 Instructor From Whom Students Learn The Most, Electrical Engineering Department, Cal Poly, SLO
- 2001 – 2002 Best EE Lecturer, Electrical Engineering Department, Cal Poly, SLO

ORGANIZATIONAL EXPERIENCE

- Chair, IEEE PES Chapter Central Coast Section, 01/2020 – present
- Chair, IEEE Central Coast Section, 01/2004 – 12/2005 (approximately 1,000+ members)

RESEARCH AND SCHOLARLY ACTIVITIES

1) PATENTS

- Taufik and Owen Jong, "Multiple Input Single Output DC-DC Converter with Equal Load Sharing on the Multiple Inputs", US Patent, US Patent No. 10,404,061.
- Taufik, D. Garinto, K. Ohn, and I. Waters, "System Method and Apparatus for a Multi-Phase DC-to-DC Converter", US Patent No. 7,782,032.

2) SENIOR PROJECTS AND MASTER'S THESES

- Faculty Advisor to 84 completed Master's Theses, see: <https://web.calpoly.edu/~taufik/thesis.html> for a complete list
- Faculty Advisor to 202 completed Senior Projects, see: <https://web.calpoly.edu/~taufik/design.html> for a complete list

3) INVITED KEYNOTE SPEECHES

- International Conference on Renewable Energy, Malang, Indonesia, August 2019.
- International Conference on Technology and Applications, Universitas Bhayangkara, Surabaya, July 2017.
- "Intelligent Systems in DC House for Residential Electricity", International Seminar on Application for Technology of Information and Communication Science and Technology, Semarang, August 2016.
- "Residential Electricity the DC House Way: Progresses, Challenges, and Opportunities", the 6th International Annual Engineering Seminar, Yogyakarta, August 2016.
- "Intelligent Systems in DC House for Residential Electricity", International Seminar on Intelligent Technology and Its Applications, Lombok, July 2016.
- "The DC House Project as an Alternate Solution to Rural Electrification", International Conference on Applied Electrical, Electronics, and Informatics Engineering, Pontianak, July 2016.
- "Education: Perpetual Impact; A Self Reflection and Personal Stories", Cerdas Foundation Fundraising Dinner, Seattle, Washington, USA, April 2014.
- Padjadjaran International Physics Symposium, Indonesia, May 2013.
- Panelist, "The DC House Project: Providing Access to Electricity for the Unfortunates", Renewable Energy World Conference and Expo, Long Beach, California, USA, February 2012.
- "Solar Energy: Potential and Product Development for Remote Areas", Conference on Information Technology and Electrical Engineering, Yogyakarta, July 2011.
- The 2nd Indonesia International Conference on Innovation, Entrepreneurship, and Small Business, Universitas Multimedia Nusantara, Indonesia, July 2010.
- Panelist, "A Conversation with Distinguished Advisors", The Center for Teaching and Learning, Cal Poly, California, USA, January 19, 2007.
- "Resonant Power Converters: An Overview ", IEEE International Conference on Power Electronics and Electric Machines, Indonesia, July 2000.

4) INVITED PRESENTATIONS

- Guest Speaker, "Harmonics in Power Systems", Universitas Bhayangkara Surabaya, August 2019.
- Guest Speaker, Workshop on ABET Accreditation", Politeknik Perkapalan Negeri Surabaya, August 2019.
- Guest Speaker, "Harmonics in Power Systems", Electrical Engineering Department Universitas Padjadjaran, Jatinangor, August 2019.
- Guest Speaker on Technical Seminar, "Harmonics in Power Systems", PGE Diablo Canyon, October 2018.
- Guest Speaker, "DC Electricity" and "ABET Accreditation", Politeknik Elektronika Negeri Surabaya, Indonesia, Sep 2018.
- Presenter of Tech Talk, "Harmonics in Power Systems", Distributed Energy Resources, San Diego Gas & Electric, August 2018.
- Lectures on "Energy Resources" and "Renewable Energy", Universitas Pertamina, Indonesia, November 2017.
- Lecture, Short Course on Introduction to Magnetic Design, Politeknik Negeri Malang, July 2017.

- Guest Speaker, "The DC House Project for Rural Electrification", Institut Teknologi Nasional, Malang, July 2017.
- Guest Speaker, "The DC House Project for Rural Electrification", Universitas Indonesia, July 2017.
- Guest Speaker, "The DC House Project for Rural Electrification", Universitas Cokroaminoto Makassar, July 2017.
- Guest Speaker, "The DC House Project for Rural Electrification", Syarikat Islam, Jakarta, June 2017.
- Guest Speaker, "Cal Poly at a Glance", Universitas Pendidikan Indonesia, Bandung, August 2016.
- Guest Speaker, "The DC House Project as an Alternate Solution to Rural Electrification", Universitas Pertamina, Jakarta, August 2016.
- Invited Lecture, "Seminar on How to Write a Successful Paper", Universitas Muhammadiyah Yogyakarta, August 2016.
- Guest Speaker, "Rural Electrification: The DC House Solution", Universitas Mataram Lombok, July 2016.
- Guest Speaker, "Pengelolaan dan Pengembangan Laboratorium Sebagai Pusat Riset Terapan Yang Berkelanjutan", Politeknik Negeri Semarang, Indonesia, July 2015
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Dian Nuswantoro, Indonesia, July 2015.
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Institut Teknologi Surabaya, Indonesia, July 2015.
- Guest Speaker, "A Discussion of Potential Collaboration Between Cal Poly and PENS", Politeknik Negeri Surabaya, Indonesia, July 2015.
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Bhayangkara, Indonesia, July 2015.
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Islam 45, Indonesia, 2015.
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Negeri Jember, Indonesia, June 2015.
- Guest Speaker, "Toward an ABET Accredited Electrical Engineering Curriculum", Universitas Padjadjaran, Bandung, Indonesia, April 2015.
- Guest Speaker, "Cal Poly at a Glance" and "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Sultan Ageng Tirtayasa, Indonesia, April 2015.
- Guest Speaker, "A Discussion on Engineering Curriculum, Universitas Prof. Dr. Moestopo (Beragama)", Jakarta, Indonesia, April 2015.
- Guest Speaker, "Cal Poly at a Glance" and "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Borneo Tarakan, Indonesia, April 2015.
- Guest Speaker, "DC Electricity: Technology of the Past and the Future", Universitas Muhammadiyah Sidoarjo, Indonesia, April 2015.
- Guest Speaker, "DC Electricity: Technology of the Past and the Future", Universitas Muhammadiyah Malang, Indonesia, April 2015.
- Guest Speaker, "DC Electricity: Technology of the Past and the Future", Politeknik Negeri Malang, Indonesia, April 2015.
- Guest Speaker, "Writing for Publication in International Journals", Electrical Engineering Department, Universitas Brawijaya Malang, Indonesia, April 2015.
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Politeknik Negeri Ujung Pandang, Indonesia, April 2015.
- Guest Speaker, "DC Electricity: Technology of the Past and the Future", Technological Institute of the Philippines, April 2015.
- Invited Lecture, "Design of Practical Buck Converter", Technological Institute of the Philippines, April 2015.
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Technological Institute of the Philippines, April 2015.
- Guest Speaker, "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Muhammadiyah Tangerang, Indonesia, April 2015.
- Guest Speaker, "Cal Poly at a Glance" and "The DC House Project: An Alternate Solution to Rural Electrification", Universitas Jendral Soedirman, Indonesia, April 2015.
- Guest Speaker, "Powering Future Microprocessor", ST3 Telkom, Purwekerto, Indonesia, April 2015.
- Guest Speaker, "DC Electricity: Technology of the Past and the Future", Telkom University, Bandung, Indonesia, April 2015.
- Guest Speaker, "DC Electricity: Technology of the Past and the Future", Universitas Padjadjaran, Bandung, Indonesia, April 2015.
- Guest Speaker, "Recent Status and Challenges of the DC House Project for Rural Electrification", Universitas Negeri Jakarta, Indonesia, 2013.
- Guest Speaker, "Getting Scholarships for Graduate Studies in the U.S.", Universitas Bakrie, Indonesia, May 2013.
- Guest Speaker, "Recent Status and Challenges of the DC House Project for Rural Electrification", Surya University, Indonesia, May 2013.
- Guest Speaker, "Recent Status and Challenges of the DC House Project for Rural Electrification", Universitas Muhammadiyah Malang, Indonesia, May 2013.
- Guest Speaker, "Smart House for a Smarter Grid: An Electrical Engineering Perspective", Politeknik Negeri Malang, Indonesia, May 2013.
- Guest Speaker, "DC House Untuk Akses Listrik di Pedalaman dan Beasiswa Kuliah Di Amerika Serikat", Universitas Trunojoyo Madura, Indonesia, July 2012.
- Guest Speaker, "DC House Untuk Akses Listrik di Pedalaman dan Pengalaman Studi di Amerika Serikat", Universitas Brawijaya Malang, Indonesia, July 2012.
- Guest Speaker, "The DC House Project: Providing Access to Electricity for the Unfortunates", Universitas Negeri Jakarta, Indonesia, March 2012.
- Guest Speaker, "Kesempatan Beasiswa Studi Lanjut di Amerika Serikat dan Sekilas Tentang Cal Poly", Balai Pendidikan dan Latihan, Department Perdagangan Republik Indonesia, Bandung, Indonesia, July 2010.

- Guest Speaker, “Kegiatan Riset di Cal Poly”, Physics Department, University of Padjadjaran, Bandung, Indonesia, July 2010.
- Guest Speaker, “Sekilas Tentang Cal Poly dan Potensi Kerjasama Akademis Dengan Universitas Padjadjaran”, Physics Department, University of Padjadjaran, Bandung, Indonesia, July 2010.
- Guest Speaker, “Sekilas Tentang Cal Poly dan Potensi Kerjasama Akademis Dengan IEU”, Indonesian European University, Surabaya, Indonesia, July 2010.
- Guest Speaker, “Sekilas Tentang Cal Poly dan Potensi Kerjasama Akademis Dengan Politeknik Sakti”, Polytechnic Sakti, Surabaya, Indonesia, July 2010.
- Guest Speaker for the Master & Doctoral Consortium at the 2nd Indonesia International Conference on Innovation, Entrepreneurship, and Small Business, Universitas Multimedia Nusantara, Indonesia, July 2010.
- Guest Speaker, “Solar Energy: Potential and Product Development for Remote Areas”, Politeknik Negeri Malang, Indonesia, June 2010.
- Guest Speaker, “Academic Exchange Program: Where To Go From Here?” Politeknik Negeri Malang, Indonesia, June 2010.
- Guest Speaker, “Soft-Switching in DC-DC Converters”, Universitas Muhammadiyah Malang, Indonesia, June 2010.
- Guest Speaker, “Solar Energy: Potential and Product Development for Remote Areas”, Universitas Muhammadiyah Malang, Indonesia, June 2010.
- Guest Speaker, “Solar Energy: Potential and Product Development for Remote Areas”, Universitas Negeri Jakarta, Indonesia, June 2010.
- Guest Speaker, “Beasiswa Studi Lanjut di Amerika Serikat”, Institut Sains & Teknologi Al-Kamal, Indonesia, June 2010.
- Invited Lecture, “A Short Course in DC-DC Converters”, Technological Institute of the Philippines, Quezon City, December 2009.
- Invited Workshop, “Practical Design of Buck Converter”, A Tutorial Session at the 2008 IEEE Power Engineering Conference, Johor Bahru, Malaysia, December 2008.
- Guest Speaker, “Power Program at Cal Poly, San Luis Obispo”, Helix Electric, San Diego, California, USA, July 2008.
- Guest Speaker, “Recent Status and Results of the Multiphase Project: Paving a Path to Power Future Microprocessors”, Graduate Seminar, Cal Poly, San Luis Obispo, California, USA, October 2007.
- Guest Speaker, “Powering Future Microprocessors”, Wesleyan University, Cabanatuan City, Philippines, Aug 2007.
- Guest Speaker, “Powering Future Microprocessors”, Technological Institute of the Philippines, Quezon City, Aug 2007.
- Guest Speaker, “Powering Future Microprocessors”, Technological Institute of the Philippines, Manila, Aug 2007.
- Guest Speaker, “Power Program at Cal Poly State University”, Universiti Teknologi Malaysia, Skudai – Malaysia, July 2007.
- Guest Speaker, “Powering Future Microprocessors”, Universiti Teknologi Malaysia, Skudai – Malaysia, July 2007.
- Invited Lecture, “Learning Theory – Training For Trainers”, PT. Delta Metro, Jakarta, Indonesia, July 2007.
- Guest Speaker, “Adjustable Speed Drives: Impacts on Power Quality”, Universitas Diponegoro, Semarang, Indonesia, July 2007.
- Invited Workshop, One-Day Workshop on “Practical DC-DC Converter Design”, IEEE Power Electronics Chapter of Malaysia Section, July 2007.
- Invited Workshop, Two-Day Workshop on “DC-DC Converter Design and Simulation Using MathCAD and OrCAD Pspice”, Politeknik Negeri Malang, Indonesia, June 2007.
- Invited Workshop, Two-Day Workshop on “DC-DC Converter Design and Simulation Using MathCAD and OrCAD Pspice”, Universitas Muhammadiyah Malang, Indonesia, June 2007.
- Guest Speaker, “Electrical Engineering Curriculum at Cal Poly”, Universitas Brawijaya Malang, Indonesia, June 2007.
- Guest Speaker, “Powering Future Microprocessors”, Politeknik Negeri Malang, Indonesia, June 2007.
- Guest Speaker, “Powering Future Microprocessors”, Universitas Muhammadiyah Malang, Indonesia, June 2007.
- Guest Speaker, “Higher Education System in U.S.A.”, Universitas Muhammadiyah Malang, Indonesia, June 2007.
- Guest Speaker, “Recent Status of Wind Energy in the U.S.”, Universitas Muhammadiyah Malang, Indonesia, June 2007.
- Guest Speaker, “Higher Education System in U.S.A.”, Sekolah Tinggi Manajemen Informatika dan Komputer (STMIK), Bandung, Indonesia, June 2007.
- Invited Lecture, “A Short Course on “DC-DC Converter Topologies and Design”, Advanced Analogic Technologies Inc., Sunnyvale, California, USA, May 2007.
- EIT Review Session on Electrical Engineering, PEITRCC (www.peitrc.com), San Luis Obispo, California, USA, March 2007.
- Guest Speaker, “A Simple DC Motor Experiment”, Saint Joseph High School, Santa Maria, California, USA, February 2007.
- Guest Speaker, “Powering Future Microprocessors”, Graduate Seminar, Cal Poly, San Luis Obispo, California, USA, November 2006
- Guest Speaker, “Power Program at Cal Poly, San Luis Obispo”, Chevron Energy Solutions, San Francisco, California, USA, August 2006.
- Guest Speaker, “Power Program at Cal Poly, San Luis Obispo”, ChevronTexaco, Richmond, California, USA, August 2006.
- Guest Speaker, “Power Program at Cal Poly”, Linear Technology, Milpitas, California, USA, August 2006.
- Guest Speaker, “Adjustable Speed Drives: Impact on Harmonics”, Arup Inc., Los Angeles, California, USA, June 2006.
- Guest Speaker, “Electrical Power”, Arroyo Grande High School, February 2006., California, USA,
- Guest Speaker, “Improving Efficiency of DC-DC Converters Using Synchronous Rectification and Soft-Switching”, Qualcomm, San Diego, California, USA, February 2006.
- Guest Speaker, “Delivering Electrical Power”, San Luis Obispo High School, California, USA, February 2006.
- Guest Speaker, “Electrical Power”, Saint Joseph High School, Santa Maria, January 2006, California, USA, 2006.
- Guest Speaker, “Providing Power For Digital Society: A Summary and Recommendations”, San Diego, California, USA, August 2005.
- Invited Lecture, “Power Electronics: Basic Circuits and Applications”, San Diego Gas and Electric, San Diego, California, USA, August 2005.
- Invited Lecture, “Power Electronics: Basic Circuits and Applications”, San Diego Gas and Electric, San Diego, California, USA, July 2005.

- Guest Speaker, "Cal Poly's Power Program: An Overview", General Atomics, San Diego, California, USA, July 2005.
- EIT Review Session on Electrical Engineering, PEITRCC (www.peitrc.com), San Luis Obispo, California, USA, March 2005.
- Guest Speaker, "Renewable Energy Sources", Saint Joseph High School, Santa Maria, California, USA, February 2005.
- Guest Speaker, "Zero Current Switching Resonant Switch Converters", IEEE Central Coast Section, Goleta, California, USA, October 2004.
- Guest Speaker, "Efficiency Improvement for Low Voltage DC-DC Converter Using Synchronous Rectification", NUEST Cabanatuan, Philippines, August 2004.
- Guest Speaker, "Role of Power Electronics in Power Transmission and Distribution", Universitas Trisakti, Jakarta, Indonesia, July 2004.
- Guest Speaker, "Switching Mode DC-DC Converters: Circuits and Design Considerations", Universitas Muhammadiyah Malang, Indonesia, July 2004.
- Guest Speaker, "Getting Scholarships in the US", Universitas Muhammadiyah Malang, Indonesia, July 2004.
- Guest Speaker, "Efficiency Improvement for Low Voltage DC-DC Converter Using Synchronous Rectification", Universitas Kristen Indonesia, Jakarta, Indonesia, June 2004.
- Lecture, "Technical Training on Power Electronics for Engineers", April – June 2004, Los Osos, California, USA.
- EIT Review Session on Electrical Engineering, Chi Epsilon, Cal Poly, California, USA, April 2004
- EIT Review Session on Electrical Engineering, Chi Epsilon, Cal Poly, California, USA, October, 2003
- Lecture, "Technical Training on Power Electronics for Technicians", April – June 2003, Los Osos, California, USA.
- Guest Speaker, "Resonant Converter Design Improves Efficiency of Switching Power Supply", University of Wisconsin Plateville, Wisconsin, USA, April 2003.
- EIT Review Session on Electrical Engineering, Chi Epsilon, Cal Poly, California, USA, April 2003
- Guest Speaker, "Cal Poly Power Electronics Emphasis: An Overview", IEEE Power Electronics Society – LA Chapter Meeting, California, USA, November 2002.
- Guest Speaker, "Improving DC-DC Converter Efficiency Using Synchronous Rectification", Graduate Seminar, Cal Poly, San Luis Obispo, California, USA, Nov 2002.
- EIT Review Session on Electrical Engineering, Chi Epsilon, Cal Poly, California, USA, October 2002
- Workshop, "PG&E Workshop on Power System and Power Electronics", Electric Power Institute, California, USA, September 2002
- Guest Speaker, "Synchronous Rectification", Graduate Seminar, Cal Poly, San Luis Obispo, California, USA, March 2002.
- Guest Speaker, "Soft-switching Method in Power Converters", University of Muhammadiyah, Malang, Indonesia, July 2000
- Guest Speaker, "Paralleled Series Loaded Resonant Converter", Graduate Seminar, Cal Poly, San Luis Obispo, California

5) GRANTS (PARTIAL LIST)

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| 2019 – 2020 | Modeling of Vanadium Redox Flow Battery, San Diego Gas & Electric, \$10,000 |
| 2019 – 2020 | Power Capacitor Studies, Aera Energy, \$10,000 |
| 2017, 18, 19 | Summer Undergraduate Research Projects, Various topics in power electronics, approx. \$30,000 |
| 2016 – 2017 | PSCAD Modeling of Microgrid and Its Components, PI, San Diego Gas and Electric, \$10,000 |
| 2016 – 2017 | Microgrid System Protection, Electric Power Research Institute, PI, \$5,000 |
| 2014 – 2015 | High Density Inverter for the Little Box Google Challenge, Power Integrations, Inc. and Enerpro, Inc., Maxim, and Cal Poly, PI, Total Amount: \$38,000 |
| 2012 – 2014 | Arc Fault Circuit Interrupter for Residential DC Electricity, Co-PI, California Energy Commission, \$150,000 |
| 2013 – 2014 | Condition Based Maintenance for Power Transformer, PI, San Diego Gas and Electric, \$7,500 |
| 2013 – 2014 | Propulsion High Voltage Power Supply, NASA Jet Propulsion Lab, PI, \$5,000 |
| 2012 – 2013 | Smart Grid Technology Projects, San Diego Gas and Electric, PI, \$10,000 |
| 2011 – 2014 | Algae Biofuel, Boeing and Cal Poly, Co-PI, \$25,000 |
| 2010 – 2011 | Ground Fault Interrupter Circuit, Chevron, Co-PI, \$100,000 |
| 2009 – 2013 | Development of Power Electronics Lab, Enerpro Inc., PI, \$40,000 |
| 2009 – 2011 | Bidirectional DC-DC Converter for Battery Charger, AmpereX, Co-PI, \$10,000 |
| 2009 – 2010 | Development of Sustainable Energy Lab, Semptra Energy, PI, \$66,400 |
| 2001 – 2002 | Optimization of Water and Energy Resources Associated with Irrigation Water Delivery and Management, Cal Poly ITRC and California Energy Commission, Co-PI, \$75,000 |

6) BOOKS

- Taufik, T., Prabasari, I., Rineksane, I.A., Yaya, R., Widowati, R., Putra Rosyidi, S.A., Riyadi, S., Harsanto, P., "ICOSI 2014: Proceedings of the 2nd International Conference on Sustainable Innovation", Springer, April 2016, ISBN: 978-981-287-660-7.
- Taufik, "Beasiswa Kuliah di Amerika", (Indonesian), 1st edition, PT. Citra Aditya Bakti, Bandung, 2007, ISBN: 979-414-958-6.

7) PEER REVIEWED JOURNALS (35 PAPERS TOTAL)

- R. Hasanah, A. Setyawan, E. Maulana, T. Nurwati, Taufik, "Computer-based solar tracking system for PV energy yield improvement", International Journal of Power Electronics and Drive System, Vol. 11, No. 2, pp. 743–751, June 2020.
- Taufik, M. Guevara, A. Shaban, and A. Nafisi, "Modeling and Load Flow Analysis of a Microgrid Laboratory", International Journal of Smart Grid and Sustainable Energy Technologies, Vol. 3, No. 2, January 2020.
- R. Hasanah, Taufik, and Onny Setyawati, "Impact of transformer's leakage inductance on duty cycle in isolated dc-dc converters", International Journal of Smart Grid and Clean Energy, vol. 9, no. 1, pp. 61-68, January 2020.
- Saidah, H. Sutiksno, B. Purwahyudi, and Taufik, "Modelling of Three Phase SVPWM AC-AC converter Using Unity Power Factor Control", International Journal of Power Electronics and Drive Systems, Vol. 10, No. 4, December 2019.
- H. Masdi, R. Hasanah, H. Suyono, I. Musirin, and Taufik, "D-STATCON Model for Voltage Sag Mitigation", International Journal of Power Electronics and Drive Systems, Vol. 10, No. 4, December 2019

- Soeprapto, R. Hasanah, and Taufik, "Battery Management System on Electric Bike using Lithium-Ion 18650", *International Journal of Power Electronics and Drive Systems*, Vol. 10, No. 3, September 2019.
- M. D. Surindra, W. Caesarendra, T. Prasetyo, T. M. Mahlia, and Taufik, "Comparison of the Utilization of 110° C Heat Sources in a Geothermal Energy System Using Organic Rankine Cycle (ORC) with R245fa, R123, and Mixed-Ratio Fluids as Working Fluids", *Modeling and Simulation of Energy Systems*, Special Issue, June 2019.
- A. Abubakar, W. Utomo, Taufik, and A. Ponniran, "Modelling of FPGA and DSP-based Pulse-Width Modulation for Multi-Input Interleaved Dc/dc Converter", *International Review of Electrical Engineering (I.R.E.E.)*, Vol. 14, N. 1, April 2019.
- M. Surindra, W. Caesarendra, T. Prasetyo, T. Mahlia, and Taufik, "Comparison of the Utilization of 110C and 120C Heat Sources in a Geothermal Energy System Using Organic Rankine Cycle (ORC) with R245fa, R123, and Mixed-Ratio Fluids as Working Fluids", *Processes*, Vol. 7, Issue 2, February 2019.
- Taufik, W. Xiong, J. Sato and Saidah, "Ambient Light Adaptive LED Light Dimmer", *TELKOMNIKA Telecommunication, Computing, Electronics and Controls*.
- J. N. Jumadri, W. Utomo, A. Ponniran, A. A. Bakar, E. Sulaiman, and Taufik, "Harmonic Current Reduction Using Soft-Switching Active Power Filter", *Advanced Science Letters*, Volume 24, Number 12, pp. 9203-9208(6), December 2018.
- R. Hasanah, Y. D. Handari, Soeprapto, and Taufik, "LED-Lamp Design for Renewable Energy-Based DC House Application", *International Journal of Power Electronics and Drive Systems*, Vol 9, No 3, September 2018.
- R. I. Putri, I. Mahmudi, M. Pujiantara, A. Priyadi, Taufik, M. H. Purnomo, "Modified Firefly Algorithm for Improved Maximum Power Extraction on Wind Energy Conversion System", *International Journal of Renewable Energy Research*, Vol. 8, No. 3, September 2018.
- W. Utomo, A. Abubakar, S. Alias, S. Yi, M. Setiawan, S. Mudjanarko, A. Sukoco, Y. Buswig, Taufik, "Modeling of A Single Phase 7-Level Cascaded H-Bridge Multilevel Inverter", *International Journal of Engineering & Technology*, Vol. 7, No. 2.6., 2018.
- A. Abubakar, A. Ponniran, and Taufik, "Simulation and Analysis of Multiphase Boost Converter with Soft-Switching for Renewable Energy Application", *International Journal of Power Electronics and Drive Systems*, Vol. 8, No. 4, December 2017.
- A. Tjahjono, D. O. Anggriawan, A. K. Faizin, A. Priyadi, M. Pujiantara, Taufik, and M. H. Purnomo, "Adaptive modified firefly algorithm for optimal coordination of overcurrent relays", *IET Generation, Transmission & Distribution*, Vol. 11 Iss. 10, pp. 2575-2585, July 2017.
- M. F. E. Purnomo, S. H. Pramono, M. A. Pamungkas, and Taufik, "Study of the Effect of Air-Gap to Array Microstrip Antenna for Mobile Satellite Communications", *Asian Research Publication Network Journal of Engineering and Applied Sciences*, Vol. 10, No: 20, November 2015.
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