

Farnaz Safdarian

Electrical Engineer, Ph.D., Minor: Computer Science

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I am currently a Ph.D. student and Research Assistant and I am looking for an internship in Power electrical engineering with special interest in optimization, operation and planning of power systems, smart grids, microgrids and energy management. I have working experience in the industry of power electrical engineering, research and teaching. I have published 19 conference papers and 4 journal papers. Moreover, I am a co-author of 4 books in Industrial Applications of Electrical Engineering, and a chapter book. I am currently working on distributed optimization to decrease the time of operation.

Education

- 2017–2020 **Louisiana State University**, Ph.D., Electrical Engineering, *GPA:3.99/4.*
- 2012–2014 **Amirkabir University of Technology (Tehran Polytechnic)**, M.Sc., Electrical Engineering, *Energy management.*
- 2007–2011 **Shahid beheshti University**, B.Sc., Electrical Engineering, *Power.*

Experience

- 2017–present **Research Assistant**, *Lab of Optimization*, Research Focusing on Distributed Optimization, Involving on Entergy Project, *Project title: A Fast and Efficient Power System Dynamic Simulator by Linearizing Stability Equations of Power System and Partitioning the Grid.*
- 2016–2016 **Lab Instructor**, *Azad University*, Giving Lectures and Conducting Experiments, *at the Electrical Circuits Lab.*
- 2015–2016 **Technical Expert**, *Porsoo Electronic Company*, Conducting Research Focusing on Power Electronic Researches about UPS, *UPS manufacturing.*
- 2012–2016 **Teaching**, *Andisheh Hamon Institute*, Teaching, *Mathematics, Heuristic Algorithms, and Physics.*
- 2012–2013 **Researcher**, *Iran Keton (Polyester Resin) Factory*, evaluating, *Energy Auditing Project.*
- 2011–2011 **Research Assistant**, *Iranian Smart Grid*, Assessment, *Power Quality in Smart Grids.*
- 2010–2010 **Intern**, *Tarasht Power Plant*, Work in different units, *turbine, boiler, electrical.*
- 2009–2009 **Intern**, *Great Tehran Electrical Distribution Co.*, Operation, *Substations.*

Courses

PhD.

Optimization, Power Systems Operation and Planning, Machine Learning, Predictive Data Analysis, Graph Theory, Data Mining, Modern Power Systems, Wide Area Monitoring and System Integrity Protection Schemes, Electric and Hybrid Electric Vehicles

M.Sc.

Smart Grids and Microgrids, HVDC Transmission, Renewable and Sustainable Energy, Energy Storage, Power Quality, Electricity Markets, Energy Consumption Processes and Assessment, Energy Planning

Computer Skills

MATLAB

Simulink

GAMS

Python

Autocad Electrical