

# Mohammad Hossein Rezaei

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Orlando, Florida, United States

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## WORK EXPERIENCES

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- ✓ **Postdoctoral Researcher** (July 2023 to present), in Florida Power Electronic Center (FPEC) and Prof. Issa Batarseh's lab at UCF, Orlando, United States

- ❖ **Responsibilities:**

- Research and develop an NSF proposal on the EV fast charging system subjects.
- Research on Grid Forming Inverters

- ✓ **Adjunct Faculty** (Jan 2024 to present), in Electrical and Computer Engineering department at UCF

- ❖ **Responsibilities:**

- Teaching Principles of Electrical Engineering course

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## EDUCATION

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Sept. 2014 – Dec. 2021

**Doctor of Philosophy, Power Electronics**

*Department of Electrical Engineering, Shahed University, Tehran, Iran*

- **GPA:** 17.62/20.00 – 3.52/4.00
- **Thesis:** Improving the design of solar microinverter through enhancing power decoupling circuits and its control

Sept. 2010 – Sept. 2012

**Master of Science, Power Engineering**

*Department of Electrical Engineering, Imam Khomeini International University, Qazvin, Iran*

- **GPA:** 17.49/20.00 – 3.5/4.00
- **Thesis:** Facts devices allocation by multi objective optimization with modified BB-BC algorithm

Sept. 2005 – Feb. 2010

**Bachelor of Science, Power Engineering**

*Department of Electrical Engineering, K. N. Toosi University of Technology, Tehran, Iran*

- **GPA:** 15.26/20.00 – 3.05/4.00
- **Thesis:** Modeling and simulation of a hybrid power generation system including solar PV arrays, fuel cell and an energy storage element

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## HONORS AND AWARDS

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- ❖ Studying in brilliant talent centers, Sept. 1998 – Aug. 2005
- ❖ Ranked among the top 1% of 360,000 participants in B.Sc. National University Entrance Exam, 2005
- ❖ Ranked among the top 5% of 2000 participants in Ph.D. National University Entrance Exam, 2014
- ❖ Admission to the first stage exam of the Physics Olympiad in Iran, 2005
- ❖ “International Journal of Circuit Theory and Application” Journal Reviewer

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## TECHNICAL SKILLS

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- ✓ **Programming Languages:** Matlab, Etap, PSIM.
- ✓ **Industry Software Skills:** MS Office, Microsoft Project, PVsyst, AutoCAD, Dialux.
- ✓ **Good communication skills, effective leadership, and strong problem-solving.**

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## LANGUAGE ABILITY

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- **Languages:** English, Native in Persian