

# Aram Sadig Monawar

## Electrical Engineer

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### Professional Experience

- **Instructor of Electrical Engineering at Alfaisal University**      *Jan 2021- Present*



Full-time instructional assignments of Electrical Engineering, including but not limited to teaching laboratory experiments, assessments, grading of EE courses, and office hours. Lab Manager.

- **Research Assistant at Joint Smart Grids & Electric Vehicles R&D Center (JSEC)**      *Sept 2018-June 2020*



Responsibilities fell into three main tracks: Research (e.g. microgrids, optimizing energy resources and max. power point tracking), Lab Work (completing DC microgrid design with improved communication and upscaling), and other tasks such as project-related communications and oversight on logistics.

- **Assistant Trainer at Mawhiba Summer Enrichment Program**      *July-Aug 2018*



Lab instructor for Data Science & Machine Learning Course 2018 to HS students. Experiments include: MATLAB intro, Linear Regression, Neural Networks, Machine learning with Google AIY Voice and Vision kits.

### Education

**Georgia Institute of Technology: *Master of Science in Electrical & Computer Engineering M.S.E.C.E***      *Jan 2019 – Dec 2020*



- Concentration: **Systems and Control**

**Alfaisal University: Bachelor of Science in Electrical Engineering**      *Aug 2014 – May 2018*

- **GPA:** 3.98/4.0
- **University Scholarship Awards:** Merit-Based & Dean's List Scholarships
- **Dean's List** of College of Eng. *June 2015, May 2016, May 2017, May 2018*



## Publications and Appearances

**Oteafy AMA, Abomazid A, Monawar AS. Fast Online Parameter Identification for Current Source Operated PV Modules in DC Microgrids. IEEE Access. 2022;1.**



## Professional Training

- **Huawei Technologies (Zain Nile Managed Service)** *Aug—Sept 2017*

Telecom Intern: Operation; Front Office, Back Office; Optimization; RAN Optimization



- **Zain Sudan HQ** *July–Aug 2017*

Telecom Intern: Operation (Core, Trans., RAN, IT, Power); Planning (Core, RAN, Trans.)



## Projects and Research

- **Capstone: Boeing Solar Quadcopter: Wireless Charging, Control, and Communication**  
*Aug 2017-May 2018*

Developed a wireless charging station for the drone with supporting features such as solar panels, basic flight, and Bluetooth communication



- **Alfaisal Boeing Solar Car Project: Power Mgt. & Driver Interface Core Member 2016-2020**

Developed 1) a robust Graphic User Interface, reliable wireless communication amongst the car's microcontrollers using the new BLE tech, and dynamic data-logging online system monitor via a private channel on ThingSpeak.com; 2) Solar panel MPPT circuitry, algorithms, and protection.

## Management and Teamwork

- **President of Alfaisal University Female Toastmasters Club 2016-2017** (Public speaking club)
- **Engineering Student Association (ESA): Academic Affairs Team 2015-2017**
- **IEEE Student Branch Alfaisal University 2015-2017**



## Competitions and Awards

- **Second Place** for capstone “**Boeing Solar Quadcopter: Wireless Charging, Control, and Communication**” at **Alfaisal 3<sup>rd</sup> Engineering Expo Spring 2018**

• **First Place** for “**Boeing Solar Car Driver Interface**” at **Alfaisal 8<sup>th</sup> Annual Research Day Students’ Poster Competition Spring 2017**

• **Alfaisal Delegate** in the **Engineering and Commerce Case Competition 2017**

*Montreal, Canada*    <http://news.alfaisal.edu/engineering-commerce-case-competition-eccc-concordia-university-montreal-canada/>



• **Science Fair: Massachusetts, USA 2007- 2012** Best Use of SI from U.S. Metric Association 2012; Honorable Mention; Third; Second; and First. Hosted by: UMass Amherst, WPI, and MIT.



## Skills At A Glance

• **Fluent English & Arabic** • **Research** • **Public Speaking** • **Teamwork** • **Leadership** • **Fast learner**  
• **Java, Octave, MATLAB, Python, C++/C (Arduino), Raspberry PI configuration** and programming.

## Notable Coursework

**Renewable Energy** • **Wind Turbine Engineering** • **Power Electronics** • **Power System Control** and **Operation** • **Data Engineering** • **Cloud Computing** for Software Engineers • (ME) **Computer-Aided Design** • **Advanced Computer Architecture** • **Statistical Machine Learning** • **Autonomous Control of Robotic Systems** • **Nonlinear Control** • **Wireless Networks** • **Networked Control** • **Financial Engineering**

## References

Ahmed M. A. Oteafy, PhD:	Director of JSEC; Assistant Professor of Electrical Engineering at Alfaisal University:  +966 11 215 7768 <i>aoteafy@alfaisal.edu</i>
Abd-Elhamid M. Taha, PhD:	CoE Vice-Dean for Academic and Student Affairs at Alfaisal University:  +966 11 215 7757 <i>ataha@alfaisal.edu</i>
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