

Mostafa Youssef

Aerospace Engineer

U.S. Citizen



EDUCATION

B.S. Aerospace Engineering

May 2018

Iowa State University, Ames, IA

GPA (3.03)



WORK EXPERIENCE

Danfoss Power Solutions (US) Company

Process Technician

January 2019 - Current

- Provided technical support and training to assembly and manufacturing personnel.
- Conducted troubleshooting for electrical & mechanical equipment used in the process to build, paint and pack hydrostatic pumps, motors and components
- Programmed Robotic Arm and setup for manufacturing to ensure product specifications and qualities are met.
- Designed tooling and fixtures for manufacturing by collaborating with the process engineering team.
- Assisted in creating, modifying and revising standard work (SW) documentation.
- Provided a line of support for the assembly cell as the next level of escalation after the cell expert for manufacturing issues related to safety and process quality
- Tested the prove-out of a new processes and changes by gathering data, making observations about the process, and communicating ideas to improve results



ACADEMIC EXPERIENCE

AirOne (Make:2:Innovate)

Propulsion Team Lead

August 2017 – May 2018

- Designed and built a propulsion system for Unmanned Aerial Vehicle Quadcopter
- Conducted thrust, thermal and flight tests in safe enclosure and performed risk assessments
- Developed Optimization tool to achieve an optimal flight configuration using MatLab and Wolfram
- Optimized the propulsion system to increase flight time by 40%
- Performed a variety of team management tasks including directing meetings, maintaining communication between sub-teams and planning milestones
- Designed and managed the project's website

ISUAV (Make:2:Innovate)

Research and Testing Team

January 2017 – May 2017

- Improved the system's efficiency through performing trade studies on various components
- Tested the overall system using laboratory tools and ensured safety in the lab environment during tests
- Analyzed data collected from tests and concluded results in written reports

Egyptian Students Association

President

August 2017 – May 2018

- Served as a representative and a leader of the Egyptian students on campus.
- Planned and organized academic and cultural events
- Raised over \$1000 for club-sponsored activities
- Administered the Save Syria Campaign, raised awareness about the refugee crisis and collected donations



ABOUT

Seeking a full-time position in the Aerospace Engineering field that will enable me to use my Aerospace background, process technician work experience and ability to work well in teams to add to my experience.



CONTACT



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PROFICIENCY & SKILLS

Ansys

SolidWorks

Matlab

Python

Fortran

Star-CCM+

Simulink

Inventor



LANGUAGES

English

Arabic

German