

Farah Shaaban

Melbourne, FL 32901, farahshaban235@gmail.com, +1(636) 579-8242, linkedin.com/in/fshaaban, linktr.ee/farahshaaban

EDUCATION

Florida Institute of Technology, Melbourne, FL, May 2024

Bachelor of Science Aerospace Engineering, GPA 3.9, Dean's list, Distinguished Scholar, Tau Beta Pi Honor Society

Florida Institute of Technology, Melbourne, FL, May 2026

Master of Science Systems Engineering, GPA 4.0, GSA, Dean's list

Master of Science Engineering Management, GPA 4.0, GSA, Dean's list

SKILLS

Technical: Siemens NX, Teamcenter, AutoCAD, Creo, MSOSA, MATLAB, C++, Python, Arduino, R, MS Office, English, French, and Arabic.

Other: Teamwork, Leadership, Communication, Customer Service, Adaptability, Efficiency, Honesty, and Reliability.

INTERNSHIP EXPERIENCE

Piper Aircraft, Vero Beach, FL

Spring 2024-Present

Powerplant & Mechanical Systems Engineering intern

- Provided design, installation, and support of new and modified powerplant and mechanical systems.
- Created solid models of parts and installations, detail and assembly drawings, including bills of materials, using NX.
- Composed engineering orders (EOs) and engineering work orders (EWOs) to revise design/incorporate changes to existing models/drawings.
- Interfaced with vendors and coordinated with purchasing for components.
- Interfaced with other engineering groups such as Avionics, Electrical, and Structures.

Larsen Motorsports, Melbourne, FL

Fall 2023

Engineering intern

- Participated in the manufacturing team, fabricating chassis, tooling, and preparing J85 jet engines for research.
- Contributed to CAD modeling and designing race vehicles and their components, utilizing Siemens software Suite and Digital Twin.
- Developed, proofed, and built composite components for turbine-powered vehicles following DOT-approved techniques.

EGYPTAIR, Cairo, EG

Fall 2018

Engineering Intern

- Worked directly with design engineers to design the interior of new commercial planes.
- Assisted with the order of a new fleet of planes from suppliers Boeing and Airbus.
- Hands-on work in repairs of planes and with spare airplane parts.
- Communicated with suppliers, customers, and team members.

CEQUENS, Cairo, EG

Spring 2014

Engineering intern

- Offered customer support and brand engagement with multichannel WhatsApp, Messenger, and iMessage integrations.
- Independently handled calls with negotiations regarding sales.
- Developed strong communication skills in administrative work.

PROJECTS

Florida Institute of Technology, Melbourne, FL

Fall 2023-Spring 2024

Seaplane Hydrofoil, Senior Design, Project Manager, Aerodynamics and Controls Subsystems Engineer

- Organized, planned, and executed capstone project while working within budget and schedule restraints.
- Designed 3D CAD models of various hydrofoils in Siemens NX.
- Analyzed hydrofoil design characteristics for unique aerodynamic characteristics and structural advantages.
- Assisted in designing and developing electrical control systems package.

Florida Institute of Technology, Melbourne, FL

Fall 2022-Spring 2023

Aerospike Nozzle, Senior Design, Volunteer

- Assist senior students in their research and comparison between solid, liquid, and hybrid propellants.
- Assist senior students in designing aerospike engines.

Leeds International Study Center

Spring 2019

F1 Racecar Design, Project Manager

- Successfully presented Preliminary and Critical Design Reviews.
- Led team in designing an F1 racecar.
- Designed 3D CAD racecar models in AutoCAD, including suspension system, engine, cockpit, etc.
- Placed 1st in the class's design competition.

WORK EXPERIENCE

Technology Support, Florida Institute of Technology, Melbourne, FL

2022-2024

IT, Student Employee

- Provided customer support for technology incidents via phone, e-mail, or walk-in visits.
- Conducted follow-up interviews of users and recorded pertinent information in an incident tracking system.
- Worked directly with Lead Technicians to escalate incidents to other support teams.

EXTRACURRICULAR ACTIVITIES

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| • Resident Director | 2024-Present |
| • Graduate Student Assistant | 2024-Present |
| • Resident Assistant | 2022-2024 |
| • Member of D2 collegiate women's basketball teams and rowing team | 2019-2024 |

References available upon request.