Max Edward

www.m3ddesigns.com

Personal Statement

Dedicated design and robotics engineer with a passion for merging creativity and cutting-edge technology to innovate and bring ideas to life.

Core Qualifications

| Lean Six Sigma methodologies, DFMEA Electrical circuit design (Autodesk EAGLE, KiCAD) Programming abilities (G-code, Arduino, | CFD, FEA, topology optimization (Ansys, |
|--|--|
| Microchip Studio, Python, Rust) CAD, CAE (Fusion 360, Inventor 2019 - 2021, | SimScale, nTopology, Meshmixer) Fabrication Ability (CNC, 3D Printing, Laser) Thrives on group projects, team engagement Focused on efficient and productive task |
| SolidWorks 2018 – 2023, Siemens NX) | completion |

Education

University of Advancing Technology

Bachelor of Science, Digital Making and Fabrication Bachelor of Science, Robotics and Embedded Systems

Relevant coursework: Material Science, Mechatronics, Prototyping Tools and Practices, Internet of Things, Arduino Embedded Programming, Robot Navigation, PCB Build, Robot Competition

Professional Experience

Raytheon Technologies - Collins Aerospace

Advanced Manufacturing Engineer Intern

- Supported operation, maintenance, and repair of industrial additive machines.
- Identified additive machine deficiencies and facilitated design and fabrication for upgrade solutions. •
- Developed procedure instructions for additive machinery and orchestrated visual training seminars.
- Coordinated the development of components and fixtures utilizing manufacturing processes.
- Influenced engineering authorizations and changes during design and fabrication processes.
- Streamlined additive part development, procurement, testing, and calibration

University of Advancing Technology

3D Build Tutor / DMF Supervisor

- Maintained multiple high-level fabrication machines, 3D printers, laser cutters, CNC machines. .
- Enabled students to operate machinery through software and hardware advisory, influencing safety across the . environment.
- Oversaw inventory management for raw materials, consumables, and spare parts, minimizing production disruptions through proactive resource management.
- Collaborated with professors and faculty to empower struggling students, promote healthy learning.
- Stayed current with industry trends and emerging technologies in additive manufacturing, incorporating new ٠ knowledge into teaching.
- Managed the scheduling and prioritization of multiple projects, ensuring efficient utilization of resources and timely ٠ project completion.

August 2023 GPA: 4.0

May 2022 – August 2023

Tempe, AZ

March 2021 – December 2022

Tempe, AZ

- Firefly Aerospace MaxMask PPE Summer 2020
- Processor Design Full Adder Spring 2021
- KosselMax Dual Extrusion Fall 2021
- IoT M5 Fan Remote Spring 2022
- M3D Macroboard Spring 2022
- Mechatronics Hotdog Machine Spring 2022

- Materials 3D Printed Fasteners Summer 2022
- Electromagnetic Ring Accelerator Summer 2022
- Prototyping Tools Fan Fixture Fall 2022
- Production Studio Project Murphy Spring 2023
- Comp Vision Color Detection Summer 2023
- Capstone AutoVisor Summer 2023

Additional

- Eagle Scout Winter 2019
- SolidWorks, Associate Mechanical Design, 2020
- Brooke Cayce Leadership Award Summer 2022
- Dean's List (Spring 2021 Spring 2023)