# Maks Jurasek

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## EDUCATION

Master of Science in Aerospace Engineering
Georgia Institute of Technology | Atlanta, GA
Expected graduation May 2025

Bachelor of Science in Mechanical Engineering
Eastern Michigan University | Ypsilanti, MI
Graduated 2022 *Magna Cum Laude*

## Work Experience

Graduate Research Assistant at the GT Aerospace Systems Design Lab
- Use advanced systems modeling and simulation techniques to solve novel systems design problems

Applications Engineer at BEHCO, Warren, MI May 2022 - August 2023
- Worked with customers to solve complex, multi-disciplinary industrial automation problems
- Designed and built various technology demonstrators for sales calls and trade shows
- Designed and built automated assembly equipment for various industries

Applications Engineering Internship. BEHCO, Warren, MI Summer 2021
- Designed robot end effectors for a variety of complex manufacturing applications
- Produced technical drawings to facilitate manufacture of parts, including GD&T
- Integrated collaborative robotics and 3D machine vision in a manufacturing environment
- Conducted site surveys at customer factories, and made project recommendations

## Skills

| CAD | Programming | Prototyping | Analysis |
|---|---|---|---|
| Advanced in Fusion360 | Proficient MatLab | Proficient Arduino | Proficient FEA |
| Proficient in Solidworks | Basic Python | Proficient Fabrication | Proficient Heat Transfer |
| Proficient in NX | Basic C++ | Advanced Additive Manufacturing | Proficient Structural Mechanics |

## Personal Projects

3D Printer:
- Designed and built a custom FDM 3D printer
- Learned about DFM, GD&T, and honed my general prototyping/troubleshooting skills

Liquid Bi-Propellant Rocket Engine Ignitor (ongoing)
- Designed a small N2O+Ethanol spark torch ignitor
- Currently integrating hardware and building the command and control software (Arduino + Python GUI with TCP networking)
- Learned basic liquid rocket engine theory and design calculations, high pressure fluid control, and design for DMLS 3D printing