

Mitry Anderson

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St. Louis, MO

Education

University Of Michigan

M.S. – Robotics

Aug 2021–Dec 2022 – 3.77 GPA

Washington University in St. Louis

B.S. – Mechanical Engineering

Minors in CS & Mechatronics

Aug 2017–May 2021 – 3.75 GPA

Skills

Software

- Solidworks CAD & FEA
- Autodesk AutoCAD
- Autodesk Inventor
- Microsoft Office
- VBA (for Excel & SolidWorks)
- Python
- C++
- MATLAB
- HTML
- Adobe Photoshop & Illustrator

Experience Designing for

- Manufacturing, Welding, Assembly, & Maintenance
- CNC Mill, Lathe, Waterjet, Laser cutter, & Press brake
- General shop fabrication
- SLA & FDM 3D Printing

Certifications

- Certified SolidWorks Professional (CSWP)
- Certified Forklift Operator

Technical Skills

- GD&T
- Technical Writing
- Machine Design

Key Courses

- Machine Elements
- Manufacturing Processes
- Metallurgy
- Control Systems
- Robot Kinematics & Dynamics
- Deep Learning for Computer Vision
- Robotic manipulation

Work Experience

Toyota Automated Logistics (Bastian Automation) – St. Louis, MO

Design Engineer I Jan 2023 – Present

- Designed robotic end of arm tools, conveyors, pallet handling equipment, & other custom machines for a variety of material handling applications.
- Created thousands of production part, weldment, assembly, system layout, and pneumatic schematic drawings.
- Supported robotics, automation, commissioning, quality, manufacturing, project management, & installation teams through complete project lifecycles.
- Partnered with external suppliers to select optimal components.
- Participated in numerous continuous improvement (Kaizen) activities.
- Led internal & customer facing design reviews to align on system direction & requirements.
- Automated tedious CAD & PLM tasks with custom macros for SolidWorks, Excel, & AutoCAD.

Amazon Robotics – Seattle, WA

Hardware Development Engineer Intern May 2022 – August 2022

- Analyzed robot data to identify current failures & potential risks, informing system requirements for an autonomous delivery robot.

Luminii LLC. – Niles, IL

R&D Engineering Intern Jun 2021 – Aug 2021

- Designed & fabricated equipment for stress testing & UL thermal testing of lighting fixtures.

Teaching Fellow, Washington University MEMS Department – St. Louis, MO

Teaching Fellow Jan 2020 – May 2021

- Courses: Dynamics, Machine Elements, & Design of Thermal Systems.

Laser Precision LLC. – Libertyville, IL

Manufacturing Intern May 2020 – Jul 2020

- Designed weld fixtures & go-gages, performed QC inspections with a Faro Arm, & operated a CNC press brake to create production parts.

Auragent Bioscience LLC. – St. Louis, MO

Intern Jun 2019 – Dec 2019

- Designed & prototyped an automated chemical mixing system, including custom syringe pumps, circuit boards, GUI, & MES integration.

AbbVie Inc. – Lake Bluff, IL

Intern Jun 2018 – Aug 2018

- Executed 5S organization of a pharmacokinetics lab

Research Project Experience

Neurobionics Lab – University of Michigan

Master's Researcher Jan 2022 – Dec 2022

- Developed a motor control API in Python for the actuators used in the lab, increasing accessibility of the open-source prosthetic leg project.