Ethan Baker

Education:

Michigan Technological University – Senior

Overall GPA: 3.23

Graduation: Spring 2024

BS: Mechanical Engineering

BS: Robotics Engineering

Minor: Manufacturing

Contact Information:

Phone: (616) 439-8837

Email: etbaker@mtu.edu

Home Address:
17954 Cedar Springs Ave. NE, Sand Lake, MI 49343

Skills:

SolidWorks (CSWP)

NX CAD and CAM

3D printing

PLC (Studio 5000)

C/C++ and Arduino

Python

ROS

Microsoft Tools

Shop tools

Summary:

Senior in Mechanical Engineering and Robotics Engineering – dual degree – with a minor in manufacturing. Completed one Co-op and two internships all in engineering. Seeking full time employment in automation or robotics.

Work Experience:

2023-05 To 2023-08

IPM – Industrial Controls Engineering

Programming PLC's in studio 5000 and creating HMI interfaces for custom industrial automation solutions. Traveling to site for programming and troubleshooting of installations for initial startup. Collaborated with mechanical engineers, on-site installation crews, and electricians.

2022-01 To 2022-08

American Ortho. – Product Engineering

New product development. Lab testing, data analysis, prototyping with FDM and Polyjet 3D printers, design adjustment in SolidWorks, project documentation, and direction of pilot runs.

2021-05 To 2021-08

Gentex – Production Engineering

Production continuous improvement. Communicating with line workers and engineers then designing solutions in SolidWorks. Fabrication and installation of solutions.

MTU Enterprise – DIVER

DIVER is an MTU affiliated project aimed at creating an ROV capable of exploring flooded mineshafts. I am on software working to integrate ROS, implement controls, and process lidar data.