Joseph Shneyderman

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Education

Northeastern University Exp. Graduation: May 2024 *College of Engineering*

- B.S. Mechanical Engineering
- Coursework completed: Physics 1-2, Calc 3, Cornerstone for Engineering, Thermodynamics, Statics, Material Science
- Coursework in progress: Fluid Mechanics, Dynamics, Mechanics of Materials, Robot Dynamics and Controls
- Extracurricular activities: Northeastern Electric Racing - Drivetrain

Skills

Languages: C/C++, Python
Skills: Arduino, Robotics, CAD, Microsoft Office Suite, SolidWorks, MATLAB, 3D-Print Experience, Linux, Image Processing, Lab Experience, Manual Milling, Horizontal and Vertical Bandsaw. MIG Welding
Interpersonal Skills: Leadership, Eager Learner, Team Worker

Projects

AerospaceNU- Learned about rocketry and helped design a liquid fueled rocket engine, using kerosene and liquid oxygen as fuel/oxidizer.

Northeastern Electric Racing – Helped design test cases for the differential to make sure that the material used on the casing would not degrade in use. As well as machined many different parts for the battery box, motor controller shelf and other various projects.

Audi Motor Replacement - Fixed an Audi from a non-running state to street legal car. Replaced motor and other failing components of the vehicle. Worked with a friend to repair the vehicle with self-learned knowledge without the assistance of a professional mechanic.

Robot- Designed and built a robot using 2 Arduinos to take a customer's order, report it to the kitchen, bring it back to the customer and report the bill to the customer.

Volunteer Experience

German National Honors Society - 2019-2020

- Helped teach/tutor middle school students the German language.
- Co-president of the German National Honors society, organizing many community-based volunteering opportunities

Work Experience

Panini Pizza Co. – *Middleton MA* Delivery Driver/Cashier 2018-2020

- Was a delivery driver and cashier for a small business in Middleton MA for 2 years, had to work with and communicate with many different people.
- Worked around language barriers as some employees spoke little English.

DEKA R&D ROXO Project– *Manchester NH*, Data Collection Specialist 2021-Present

- Worked on a team to collect and curate data for machine learning
- Helped assemble testing machines to gather data and test hardware
- Used Python to automate processes within the collection and curation of data
- Learned and helped organize the data pipeline to achieve efficient work flow