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, Calculus 1-3, Cornerstone for Engineering 1-2, Thermodynamics, Statics, Material Science, Chemistry
Coursework in progress: Fluid Mechanics, Dynamics, Mechanics of Materials, Robot Dynamics and Controls
Extracurricular activities: Northeastern Electric Racing – Drivetrain and Manufacturing

_____Skills_____

Programming: 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
Languages: German and Russian

_____Work Experience_____

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

- Worked on a team to collect and curate over 1,000,000 images to better improve machine learning models for object detection and traffic light recognition
- Helped assemble 12 unique testing machines to facilitate terabytes of data collection
- Utilized Python to automate processes within the collection and curation of data to increase efficiency
- Organized the data pipeline to achieve efficient workflow

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, facilitated over $2,000 of sales daily, processing up to 130 orders a night.
- Worked around language barriers to effectively communicate with coworkers in order to work efficiently.

_____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