

HENRIQUE PIO

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.. Objective ..

Graduated Mechanical Engineer looking for an entry level job position to kick start my career aiming to gain more knowledge and experience.

.. Education ..

Michigan State University – Lansing, MI

Sep 2018 – May 2022

B.S. in Mechanical Engineering – GPA: 3.37

- Automotive Powertrain Concentration
- Relevant Courses: Automotive Engines | Powertrain Design | Mechanical Vibrations | Turbomachinery | Control Systems | Heat Transfer | Fluid Mechanics | Introduction to Combustion |

Walled Lake Northern High School – Commerce, MI

Sep 2014 – June 2018

High School – GPA: 3.75

.. Work History & Related Projects ..

Utility Vehicle Trailer Project (January – May 2022)

Flash SteelWorks Company (Company Sponsor)

- Objective was to create a lighter, cheaper, durable and road legal trailer.
- Worked on design of the trailer using NX.
- Measured the tubes that we used, cut them to size, notched the tubes and helped with wiring lights.
- Initiated progress reports, and presentations for company sponsor.

Mini-Can Crusher Project (September – December 2021)

- Objective was to crush a can to the smallest size possible.
- Designed parts of our can crusher using NX.
- Participated in building a four-bar linkage system as our can crusher.

Mini-Solar Car Project (November – December 2018)

- Objective was to build a solar car that would tow 250 grams the fastest.
- Worked on design of the solar car on NX.
- Built the chassis, wheels, gearing system and tow hook for the mini trailer.

Lego Kit Project (September – October 2018)

- Objective was to build a robot that would follow a black line on a track and pick up the ball at the end.
- Built a section of the Lego robot.
- Worked with a teammate to code the robot with MATLAB and Simulink.

Walled Lake Community Soccer Camp/ Volunteering, Commerce, MI

June – August 2017, June – August 2018 & June – August 2019

- Volunteered as a counselor for kids from the ages of 5-12 to help kids become more efficient at soccer and to develop skills such as teamwork. Also worked with other counselors to make fun and skillful soccer drills for kids to improve their skills.

.. Skills ..

- Programs: MATLAB, Simulink, GT-Power, Microsoft Office, Siemens NX, Autodesk Inventor, Ansys, Python.
- Languages – Portuguese, Spanish, English.
- Knowledge of Powertrain calibration tool such as INCA ETAS.
- Organization, Teamwork, Communication.
- Basics of CAN (Controller Area Network) communication.
- Basics of component diagnostics such as circuit diagnostics.
- Using Code Academy to learn C, C++ and to refresh Python Skills.

.. Honors & Activities ..

- Brazuca MSU (2019 – 2022)
- National Honors Society (2017 – 2018)
- Spanish Honors Society (2017 – 2018)
- Varsity Soccer (2016 – 2018)