

Matthew D. Buzza

Permanent Address:

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EDUCATION

University of Cincinnati, Cincinnati, OH
M.S. Mechanical Engineering

Expected Graduation: April 2016

The Ohio State University, Columbus, OH
B.S. Mechanical Engineering

Graduation: May 2014
Overall GPA: 3.38 / 4.0

COURSE WORK

- Completed course work includes: Machine Elements, Measurements and Data Analysis, System Dynamics and Vibrations, System Integration and Control, Design and Control of Mechatronic Systems, Manufacturing Process, Statistics for Engineers, Heat Transfer, Thermodynamics, Fluid Mechanics, Intro to Design, Engineering Economics, Composite Materials, Material Science, Dynamics, Strength of Materials, Statics, and Vehicle Dynamics
- Computer skills include: MATLAB; Simulink; LabVIEW; Solid Works; Catia; Inventor; Engineering Equation Solver; Microsoft Excel, Power Point, and Word

ACADEMIC ACHIEVEMENTS

- Named to Dean's List for 5 academic quarters/semesters (GPA>3.5).
- Senior Team Capstone Project – Designed a land speed car body panel attachment system capable of withstanding aerodynamic loads and resisting environmental corrosion. Brainstormed and researched extensively to create an attachment system that was easy to operate and quickly detachable.
- Junior Team Design Project – Designed geared speed reducer with a gear ratio of 8.75:1, capable of transmitting 50 hp at 1750 rpm with a life of fifty hours a week for ten years. Performed mechanical analysis and researched cylindrical bearings, ball bearings, spur gears, bevel gears, lubrication, and seals.
- High School Design Project – Designed and built a device to sort marbles by color. Programmed computer to receive data from optical sensors, to determine color and then to control motors that guided marbles to a designated collection stack.

WORK EXPERIENCE

The Ohio State Center for Automotive Research, Columbus, OH
Student Research Assistant

September 2011 to May 2014

- Member of Buckeye Bullet Team that is working to build the fastest electric car in the world.
- Designed, procured parts, and assembled hydraulic system for lifting car trailer for transportation.
- Assembled battery packs: crimped wires, machined/installed bus bars, and wired lithium ion battery modules in series.
- Completed miscellaneous small projects such as building metal shelving using MIG welding, making small parts using a milling machine and; sandblasting vehicle trailer for car transportation.

Glenn Machine Company, Coraopolis, PA
CNC Machinist

Summer 2010 and 2011

- Ran CNC lathe that machined piercing points used in steel tube production.
- Ran CNC milling machines that machined flat surfaces, drilled holes, and tapped internal threads.
- Programmed CNC machines to maintain tolerances for part dimensions.
- Trained new employees to operate CNC machines.