Brendan Maye

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Portfolio: bit.ly/bmayeportfolio
Islip Terrace, NY

Seeking entry-level employment in the field of mechanical engineering design.

EDUCATION

Bachelor of Science- Mechanical Engineering — Sept 2014 - May 2019
Binghamton University, Binghamton, NY — GPA: 3.2
Academic Honors: Watson School of Engineering Dean's List- Spring 2015 and Fall 2018, William and Alice Gansdorf Scholarship

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WORK EXPERIENCE

AutoCAD Drafter- Piping Rock Health Products, Ronkonkoma, NY — Apr 2018 - Aug 2018

- Documented facility layout and equipment modifications for VP of Engineering.
- Analyzed and designed hot water and dust collector systems.
- Created CAD drawings for parts and equipment measured in the field.
- Requested and received estimates from manufacturers and contractors.

Grocery/Meat Department Associate- East Islip Village Market, East Islip, NY — Aug 2013 - Jan 2016

- Maintained inventory for grocery and meat departments.
- Filled custom orders and trained several new employees.

Construction Laborer- Seamless Roofing and Chimney, Islip, NY — Jun 2012 - Aug 2013

- Manually transported construction materials.
- Learned the basics of roof demolition and construction.

PROJECT EXPERIENCE

Electronics Team Lead- Binghamton SAE Formula Team — Jun 2018- May 2019

- Designed and built the electrical system for the 2019 Formula IC Vehicle.
- Recruited and led a team of 5 multidisciplinary students.
- Personally designed and fabricated a custom dashboard using Solidworks sheet metal.
- Ensured that all systems were compliant with SAE Formula Michigan competition rules.

Junior Design Project- Desktop Jukebox — Jan 2017- May 2017

- Designed assembly and components of a custom jukebox using PTC Creo.
- Analyzed dynamics of the mechanism and component strength using ANSYS Workbench.

Mechanical Designer- ASME Mini Mars Rover Competition — Sep 2016- Dec 2016

- Designed and built a miniature Arduino Mars rover in a team of 4.
- Designed and fabricated chassis and servo steering systems, along with DC motor drivetrain.

SKILLS

Software: Solidworks, PTC Creo, AutoCAD, MATLAB, Excel, Word, Powerpoint, Xilinx ISE, LINUX, RobotC
Manufacturing: Woodworking, press brake, 3D printer, CNC router, welding (arc, MIG), grinder, drill press
Electronics: Soldering, oscilloscope, data acquisition systems, strain gauges, thermocouples, Arduino