Ethan M. Schwartz

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Objective:

To apply my experience in mechanical engineering and heavy industrial operation, while contributing to the overall success of the company.

Education:

Wilkes University, Wilkes-Barre, PA

Bachelor of Science in Mechanical Engineering (ABET), Honors Program

Minor: Engineering Management

Cumulative GPA: 3.71/4.00

Anticipated Graduation: May 2020

Related Experience:

PPL Electric Utilities - T&S System Engineering Intern

May 2019 - August 2019

 Participated in an integral role to maintain the safety and reliability of the transmission grid system within PPL Electric Utility territory. Focused on a UAV project to perform infrared substation inspections while also assisting in repairs of equipment malfunctions.

PennDOT ESTI STAMPP Program, Civil Engineer Assistant

May 2018 - August 2018

• Performed Roadway Condition Surveys for shoulder, guide rail, and drainage ditches. Operated in a heavy industrial environment. Entrusted with a state vehicle & state laptop to perform daily survey tasks, including process improvement. Performed 3 days of training at the Allentown District office. Received state certified training in Harrisburg, PA, achieving a proficiency level for internship approval.

Allan P. Kirby Center for Free Enterprise and Entrepreneurship, Engineering Scholar

April 2018 – Present

Mentoring internal & external clients using engineering processes. Assist in product design & development which then translates to
producing CAD drawings & 3D printed models. Provide cost analysis & manufacturing research upon the client's approval of
model. Bounded by confidentiality agreement, therefore project specifics cannot be discussed.

Department of Electrical Engineering and Physics - Teaching Assistant and Tutor

January 2018 – May 2018

· Aid professors & laboratory instructors in respective pharmacy physics & general physics sections as well as providing necessary tutoring to fellow students.

Township of Bethlehem, PA Public Works - Seasonal Help

June 2016 - August 2017

· Performed lawn maintenance & general manual labor. Operated heavy equipment owned by township, while maintaining safety practices. Approved to drive municipal vehicles.

Educational Projects and Skills:

- Machine Design: Mow and Grow Project using SolidWorks & Microsoft Office, a student team of five have designed and are continuing to improve upon the model of a push mower with a fertilizing attachment.
- Manufacturing and Machining: Turbine Blade and SR-71 Blackbird Skin Research through the Wilkes University Farley
 Library scholarly sources database, three student colleagues and I are continuously researching & presenting the
 complexity and engineering marvel known as the SR-71 Blackbird.
- · Mechatronics: Jeep Recovery (Position Control Project) Designed, coded, & constructed a ramp to model a tow truck and winch system from a basic breadboard.
- Dynamics: Roller Coaster Design and Model Designed the Roller Coaster in SolidWorks, performed experimental calculations in Microsoft Excel, and created a simulation in No Limits 2.
- Strength of Materials: Materials Optimization Design Project competed in a competition attempting to limit to the efficiency of a hollow round stock using a hollowed stock with a torque head extruded cut, modeled in Autodesk Inventor and Microsoft Excel for differential calculations.
- · CAD Lab: All-Terrain Vehicle Tandem Axle Dump Trailer Assembled 3D model in SolidWorks with over a dozen parts

Campus Activities and Leadership Experience:

American Society of Mechanical Engineers – Vice President

August 2018 – Present

· Annual Car Show nearly 300 registered vehicles – Donated \$1,000 to Patriot's Cove (Non-Profit Veteran's Organization)

ESAC (Engineering Student Activities Committee) - Treasurer

September 2019 – Present

Pennsylvania Society of Professional Engineers (PSPE) – Active Member

September 2018 – Present

The Big Event – Participant

April 2016 (Annually)