

NICHOLAS L. GAILEY

nlg5161@psu.edu | 724-816-1521 | 316 W. Beaver Ave, State College, PA 16801

EDUCATION

The Pennsylvania State University, State College, PA

Bachelor of Science in Mechanical Engineering

Minor in Mathematics

Graduation May 2020

Behrend Honors Program | GPA 3.81

Dean's List 7 of 8 semesters

WORK EXPERIENCE

Field Technician, Austin Master Services | Sarahsville, OH

June thru August 2019

- Obtained instrument calibration readings to ensure proper functioning & adherence to quality control standards.
- Calculated area of fracking retention pond for tarp and liner removal. Personally removed through proficient operation of excavator and skid steer.
- Collected and analyzed air samples during power washing sessions for α and β particles for safe air quality.
- Surveyed the micro-R readings on incoming and outgoing trucks using a radiation dosage instrument.

Laboratory Technician, Austin Master Services | Martins Ferry, OH

June thru August 2019

- Acquired samples of pressed agitator ponds to conduct moisture and radiation analysis.
- Conducted thorough inspection and quality control review of trucks prior to leaving the compound.
- Authorized to retain trucks that did not pass inspection.
- Consulted with engineers on ground survey blueprints to ensure protection of water pipes during construction and digging.

ENGINEERING RESEARCH AND DEVELOPMENT PROJECTS

3D Printed STEM Kit, ME 340-Design Methodology | Penn State

January 2019 thru May 2019

- Served as project manager to oversee the completion of assignments were submitted properly and on time.
- Lead designer of a 3D printed STEM kit to increase middle school students' interest into STEM fields.
- Managed meeting dates and agendas to ensure the group worked efficiently.
- Co-authored proposal and final report.

Cold Frame Project, Engineers without Borders | Erie, PA

October 2017

- Directed three groups each with responsibility for building a complete cold frame to protect outdoor plants.
- Created a 2D design that would minimize materials purchased to reduce the overall cost of the project.
- Rendered CAD models to illustrate frame assembly using precise measurements from wood.
- Presented frames to elementary school for installation to protect outdoor plants from winter winds.

COMMUNITY INVOLVEMENT & VOLUNTEER EXPERIENCE

Hospital Volunteer, UPMC Passavant | McCandless, PA

January 2013 thru July 2016

- Worked in a partnership with therapists to ensure patients completed their exercises in their allotted time.
- Volunteered over 250 hours and won the Passavant Volun-teen Scholarship.

Summer Camp Leader, North Way Christian Church | Wexford, PA

June 2009 thru Present

- Manage light and sound system for daily morning performances.
- Supervise volunteer leaders responsible for camp groups with 15 children per group.

TECHNICAL SKILLS AND CERTIFICATION

MATLAB

Autodesk Inventor

Microsoft Office

SolidWorks

CSWA Certification

OSHA 10 Certified