

Mason R. Smetana



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Education GPA: 3.54 | Dean's List Recipient

University of Pittsburgh, Swanson School of Engineering

Bachelor of Science in Civil Engineering

Structural Engineering Focus

Pittsburgh, PA

December 2021

Civil Engineering Courses:

Statics and Mechanics of Materials I & II, Dynamics, Probability and Statistics, Engineering Economic Analysis, Construction Management, Materials of Construction, Introduction to Structural Analysis, Design of Structures, Principles of Fluids and Soil Mechanics, Foundation Design, and Sustainable Development

Hershey High School GPA: 4.00

Hershey, PA

Distinguished Honor Roll

June 2017

- Peak Academic Performance in Engineering Design II
- Peak Academic Performance in Architectural Design I

Work Experience

American Bridge Company

Coraopolis, PA

Engineering Co-op Student

January 2019 – Present

- Observe and assist field engineers in the demolition of the existing SR520 Bridge in Seattle, WA
- Aid in the procurement of estimating large scale structural construction operations, including the addition of a historical productivity analysis program
- Designed software to accelerate analysis of effective pile lengths for multi-span temporary construction trestle for the SR520 Bridge
- Improved weight take-off and C.G. calculations through the aid of a self-designed computer program
- Analyzed displacements of deck panel during lifting procedure of Queensboro bridge rehabilitation using SolidWorks simulation
- Drafted and Compiled set of priority steel repair shop drawings for the George Washington Bridge
- Review AISC, AASHTO, and other codebooks in the design of temporary and permanent structures

Bam Waterproofing, LLC

Doylestown, PA

Technician

June 2017 – January 2019

- Solve common household foundational problems as well as fixing equipment malfunction
- Demonstrate labor intensive work integrity while ensuring usage of ethical and professional methods

Organizations and Involvement

American Society of Civil Engineers, Member

September 2018 - Present

Projects: Concrete Canoe, Steel Bridge

Communicate and develop connections with other Civil Engineers who have similar interests and passions.

Engineers Without Borders, Member

September 2017 - Present

Projects: Water Cistern Installation, Playground Equipment, Township Water Distribution

Engage in local community projects with a group of classmates and help arrange meetings to ensure project(s) are to be completed by deadline

Food Recovery Heroes, Member

September 2017 - Present

Reduce amount of food waste, and help become a more sustainable community

A.C.E Mentor Program, Member

November 2014 – April 2016

Exposure to professional workplace during youth; Followed and observed local engineers

Technical Skills:

- | | | | |
|--------------|--------------------|----------------|----------------|
| • AutoCAD | • SolidWorks | • Visual Basic | • Python |
| • SAP2000 | • MATLAB | • HTML | • Git Bash |
| • 3DLiftPlan | • Microsoft Office | • JavaScript | • Bluebeam PDF |