

# Samuel M. Piedmonte

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## Campus Address

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## LinkedIn and Portfolio

[www.linkedin.com/in/smp6773](http://www.linkedin.com/in/smp6773)  
<https://sam-piedmonte.engineer>

## Permanent Address

22327 19<sup>th</sup> Ave SE  
Bothell, WA 98021

## EDUCATION

### Bachelor of Science in Mechanical Engineering

#### Engineering Leadership Development Minor

#### The College of Science and Engineering

The Pennsylvania State University, University Park, PA  
Associates in Science and Mathematics, Bellevue College

#### Graduating

December 2023

GPA: **3.31/4.00**

## WORK

### Mechanical Engineering Intern

June 2022-

## EXPERIENCE

Peraton, Princess Anne MD

August 2022

Designed and retrofitted testing fixtures, analysis for constraints, technical documentation and parts for a next generation of rockets.

### Mechanical Engineering Intern

Dec 2022-

Bechamo, Buffalo NY

May 2022

Designed, built, and tested aircraft with functioning moving surfaces to physically represent emulation code.

## ENGINEERING EXPERIENCE

**ACRP Challenge** Designed and analyzed novel runway excursion prevention device.

**Engineering Design** Prototyped, coded, and 3D printed fully functional smart cup.

**Entrepreneurship** Created custom neon sign business to generate recurring income.

**Engineering Design** Prototyped, designed, and built learning exhibit for children.

## RELEVANT COURSES

Engineering Design & Graphics  
Thermodynamics, Fluid Dynamics, Heat Transfer  
Statics, Dynamics, Mechanics of Materials  
Engineering Leadership, Project Management  
Modeling Dynamic Systems, Mechanism design

Calculus I / II /III  
Mechanical Design  
Vibration Mechanics  
Design Methodology  
Circuits, Mechatronics

## SOFTWARE

SolidWorks, SolidWorks Simulations, AutoCAD  
MATLAB, Arduino, C#, Python Programming languages

## LEADERSHIP

Peer Partnership Program

2022-Current

Engineering leadership Society

2021-Current

Vice President Sigma Tau Gamma Fraternity

2021-2022

Assistant Senior Patrol Leader, Boy Scouts of America

2019

Member, Lake Washington robotics club

2016-18

## HONORS

Recipient, Boy Scouts of America Eagle Scout Rank

2020

Recipient, 4<sup>th</sup> year varsity swimmer

2016-20

Recipient, 1<sup>st</sup> Place engineering design

2020

## SKILLS

Visualize 3D solutions, Quick to learn, Problem solving, Communication