Sean Daniel Celerio

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Objective

Current University student aiming to gain new work experience, learn real-world applications of engineering, and work under a reputable company. Extremely motivated, organized, and open to learning new skill sets and developing my abilities as an engineer.

Education

Texas A&M at College Station (Expected 2026)

- GPA: 3.927
- B.S. in Computer Engineering (CPEN)

Project Lead the way, (PLTW), at Shadow creek high school, (2018-2022)

- Non-profit STEM curriculum
  - Engineering Design and Development (Yearlong Capstone Project)
  - Civil Engineering and Architecture (Application and use of Autodesk Revit)
  - Principle of Engineering (Coding and VEX Robotics)
  - Introduction to Engineering Design (Engineering Process and CAD)

Organizations

- Technology Student Association (TSA), 2021-2022
  - State Qualifier for CO2 Drag Racing
    - All wood constructed dragster, 0.3 m long with a minimum required mass of 55 grams
    - Launched across a 20 m track in under 1.5 seconds
  - State Qualifier for Trebuchet/Catapult Competition
    - PVC-constructed catapult using a bag of sand as a counterweight
    - Designed to launch 14.5-gram golf balls into a scoring net 15 feet away
- Aggie Coding Club (ACC), 2023+
  - Build-A-Rocket Project (Learners Focused Project) – Fall 2023
    - Implementation and usage of embedded hardware, like altimeters or velocimetry
  - Mouseless Mouse (Result Focused Project) – Spring 2024 to Present
    - Development of a mouse glove device with app usage and wireless connection.

Skills & Abilities

Advanced at . . .

- Python 3
- C++

Familiar with . . .

- CAD/ 3-D Modeling
  - Autodesk Inventor
  - Fusion 360
- ARMv8
- PCB Design
- Soldering

Projects

200Wh Battery Pack (Ongoing Project)

- Powered by 15 18650 Li-ion batteries, providing ~12 Volts
- 3D printed case in ABS Plastic
- 150 W Wall Port, 4 USB Ports, Adjustable DC Port, and Wireless Charging Pad

VEX Sun/Light Tracker (Completed)

- VEX Constructed
- Programmed in ROBOTC
- Points towards the brightest light source

VEX Material Sorter (Completed)

- VEX Constructed
- Programmed in ROBOTC
- Sorts marbles of different materials into different compartments