

ALEXY L. PULIDO

(321) 986-9344 | pulido.alexyl344@yahoo.com | Orlando, FL

EDUCATION

University of Central Florida

Bachelor of Science in Mechanical Engineering

- President's List

Expected Graduation: May 2026

GPA: 3.64

Valencia College

- President's List (throughout all five semesters)

Aug 2020 - May 2022

GPA: 4.000

EXPERIENCE

Powertrain Design Lead | UCF's Formula SAE Team | Orlando, FL

2023 - 2024

- Powertrain: Performed R&D and designed powertrain, and supervised its manufacturing.
- Exhaust System: Designed system through prudent engineering practices and use of SolidWorks.
- Intake System: Reviewed and remodeled the existing design using SolidWorks and ANSYS.
- Hands-on experience with manufacturing, engine building, and final assembly of the racecar.
- Experienced in teamwork and communications skills through competitions and everyday work.
- Performed 3D CAD modeling and coordinated work with other systems to reach a final product, and reviewed other members' SolidWorks designs.

Amateur Mechanic | Rebuilding Sports Vehicles (at Home) | Orlando, FL

2020 - Present

Ford Mustang Project: Restoring classic 1965 Ford Mustang (80% complete)

- Rebuilt and tuned 4-barrel Holley carburetor, as well as replacing every engine component.
- Fabricated headers and mounts for engine components like battery and alternator.

Go-Cart Project: Customized racing car including tuning and 3D parts printing (100% complete)

Projects

Formula SAE Member

2022-Present

- Designed and simulated structural tabs using SolidWorks and Ansys FEA.
- Designed and manufactured catch cans in compliance to competition regulations.
- Rebuilt GSXR 600cc engine using custom billet aftermarket parts.
- Custom SLS-Nylon 12 Intake system designed and simulated using SolidWorks and Ansys CFD.
- Custom 305 SS muffler design using SolidWorks and tested in compliance to regulations.

3D Printing

- Designed and manufactured custom sponge holder.
- Designed prototype of intake runners used on FSAE Intake system.
- Printed press and die used for muffler manufacturing.

Autonomous Boat

- Driverless foam boat designed and programmed using SolidWorks and Arduino.

SKILLS

Ansys | SolidWorks | C | Java | MS Office Suite (Excel) | 3D Printing | MATLAB

Full Bilingual proficiency: English (Native), Spanish (Full working proficiency)