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Felipe Galindo

For the Senior Test Engineer position at Stratasy, to contribute my expertise in 3D printing, programming, and robotics to further the Company's mission of creating innovative & sustainable solutions for its customers.

Education:

- Junior, Bachelor of Science in Computer Science at UMN-TC
- High School Diploma from the Marshall School in Duluth, MN
- Stanford Summer session 2019.
- FAA Certified Drone pilot with Part 107 Drone License

Experience:

- [Lead Programmer, FIRST Robotics Competition Team 4230](#) coordinated a team of programmers to achieve significant success in the FIRST Robotics Competitions
- Extensively used complex test equipment & simulation software to measure and improve the performance of designs.
- [Lead Vision Programmer, Robot in 3 Days Event at UMN \(2023\)](#): Led a team to develop software for an autonomous FIRST compliant robot that uses PhotonVision and AprilTags for navigation.
- Designed, built and programmed a [functional 3D Printed Robot dog](#).

Skills:

- Proficient with PlatformIO and the Arduino framework, as well as programming languages such as C++, MicroPython, SwiftUI, Python, and Bash.
- Able to design, test, and analyze data with a team to proactively address issues with a product and improve outcomes.
- Very comfortable with working with multiple projects at once.
- Creative and able to come up with unconventional approaches to problems and clever test & feedback systems.
- Experienced with Linux, ROS, and advanced software techniques such as distributed systems, BTLE & ESPNOW wireless communications, as well as JTAG debugging.
- Skilled in using oscilloscopes and other lab equipment to diagnose and troubleshoot electronic circuits.
- Experienced in designing and printing with various plastics, including HTPLA with metals, Nylon, Polypropylene, TPU, and PETG.
- Proficient in Spanish and can speak a little German
- Rapid Prototyping: Passionate about prototyping and utilizing 3D printing to rapidly iterate on designs and bring ideas to life fast.
- Willing to work for the learning experience, not interested in the money, but the fame.

Real-Live Applications of 3D Printed Tech:

[Ronald360:](#)

An omnidirectional robot I programmed, equipped with a custom 3D Printed mount to carry a 360-degree camera for enhanced vision capabilities.

[Drone 3D Printed 360 Camera Mount:](#)

Designed and extensively used a 3D printed Nylon Carbon Fiber 360 camera drone mount, which was featured in an article, and even tested on a drone in Ukraine for use in high speed, low flying maneuvers in a reconnaissance drone. I work with the UMN athletics department to record some of their matches with my robot dog, and with the UMN Rocket team to record their Rocket Launches with my custom drone.

[GoldyDogV7.8:](#)

A robotic quadruped dog that I designed and built, which is controlled by GoldyOS, a distributed operating system I created with a user interface for an e-ink display. He can carry a 360 camera, and walk with it, he has LiDAR, 4G, A VPN, a camera, and AprilTags for real-time tracking with an external camera.

[Toroidal Propellers:](#)

I designed and published toroidal for use in small drones and other projects. At least two people have printed and successfully flown these, and messaged me their results, I also tested them, and they appeared to be up to 10% quieter.

I've been persuaded to apply to this job by Stratasy's commitment in sustainable innovation and [Colton Mehlhoff](#). Thank you for your time, please message me if you have any questions.