

Jeffrey Anderson

jeffanderson867@ucla.edu
404-983-4994

EDUCATION

- **University of California - Los Angeles** Los Angeles, CA
Bachelor of Science - Mechanical Engineering - GPA: 3.47 *Expected June 2022*
Courses: Intermediate Fluid Mechanics, Advanced Strength of Materials, Principles of Nanoelectronics, Environmental Nanotechnology

WORK EXPERIENCE

- **NanoClear Technology** Pasadena, CA
Process Engineer Associate *May - Sep. 2019*
 - Custom tooling and supporting software for environmental materials testing of nano-enabled super-hydrophobic and super-hydrophilic surfaces. Custom chemical process hardware. Porting existing processes to new tooling and applications. Enlisting prototyping manufacturers.
 - **Environmental Chamber:** Environmental chamber for materials testing. Involved Raspberry Pi, Arduino, PID control, and python application. Holds $\pm 0.5^{\circ}\text{C}$ and $-5\%\text{RH}$ with cycling behavior.
- **California NanoSystems Institute - Integrated Systems Nanofabrication Cleanroom** Los Angeles, CA
Lab Assistant *Feb. - Jun. 2019*
 - Ordering chemicals, ensuring tools operate within specifications, chemical waste handling, cleanroom specific tasks (particle count, laundry, etc.).
- **Wellstar Kennestone Hospital** Marietta, GA
Technician - Advanced Endoscopy Center and Linen Technician *Jun. - Sep. 2018*
 - Vital signs, patient transportation between rooms, room turnover, inventory, customer service, infection protocol and personal protective equipment
 - Distributing Linen
- **Canister Design** Woodstock, GA
Software Development Intern *Jun. - Jul. 2017*
 - Introductory Swift IOS Development for MacOS and iOS applications, API interaction

PROJECTS

- **Bruin Racing - Super Mileage** Los Angeles, CA
Powertrain Lead and Lab Manager *Sep. 2018 - Pres.*
 - Managing powertrain members and related projects, shop layout and safety procedures
 - **Engine Mount:** Sheet metal design for engine, wheel, and starter motor mounts.
 - **Fuel Pressurization:** Pressure vessel and safe regulation for static fuel pressurization and 3D printed mounting hardware.
- **IdeaHacks2020 Hardware Hackathon, Education Category Winner:** Automatic book reader using vision processing API on Raspberry Pi in under 48 hours. Five person team.
- **IdeaHacks2019 Hardware Hackathon, 1st Place Winner:** RFID bike lock in under 48 hours using CAD, 3-D printers, and Arduino. Five person team.
- **UCLA Department of Mechanical and Aerospace Engineering** Los Angeles, CA
Student *Sep. 2018 - Pres.*
 - **2D Acoustic Mapper:** Planer acoustic mapping using omnidirectional microphones and speaker.
 - **Engineering 96: Rockets:** Carbon fiber and 3D printed model rockets(1-3 ft. in length). Suspended egg payload carrier.
- **For Fun:** ESP32-based bluetooth keyboard(in progress). Raspberry Pi home VPN, network DNS ad blocking, and 3D printing server.

SKILLS SUMMARY

- **Languages** Python, MATLAB, Julia, L^AT_EX, Arduino
- **Tools** SolidWorks, GIT, Minimal Simulink and KiCAD
- **OS** Linux(Manjaro, Ubuntu), Windows, MacOS