Vittorio Martinet

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EDUCATION

University of California, Davis
Bachelor of Science in Mechanical Engineering — June 2021
Honors: Dean's List, College of Engineering — Major GPA: 3.93/4.00

EXPERIENCE

Triple Ring Technologies — Sep 2021 – Present
Mechanical Engineer — Newark, CA

- Provided engineering consulting services for 7 different companies specializing in medical devices and environmental protection
- Services included: concept brainstorming, component sourcing, SolidWorks CAD and GD&T, rapid prototyping, product inspection, verification, validation, troubleshooting, and sensor data analysis
- Carried out a human trial to evaluate a device's functionality on individuals with different concentrations and types of melanin
- Developed organizational and leadership skills as lead consulting mechanical engineer for a DARPA funded smart-pill project
- Performed long term medical device testing which resulted in a device lifespan increase from 25 to over 100 uses, directly increasing profits for the client company
- Designed and produced multiple functional prototypes of a device which facilitates coronary artery bypass graft surgeries
- Designed and built a test bed which simulates blood flow through a human aorta to evaluate prototype functionality
- Acted as calibration lead, improving engineers' productivity by keeping calibrated equipment up to date and organized

UC Davis, Mechanical Engineering Department — Jan 2021 – Jun 2021
Project Team Lead — Davis, CA

- Lead a 5-person team in the research and development of a worn electronic device which accurately measures physiological factors to prevent heat illness in the elderly, athletes, and military personnel
- Utilized SolidWorks to create prototype models and dimensioned component drawings
- Lead author and editor of technical reports submitted to sponsor

Sandia National Laboratories — Jun 2020 – Sep 2020
Mechanical Engineering Intern — Livermore, CA

- Designed and prototyped an electronic lockout safety system to prevent optical test engine damage
- Wrote technical documentation and presented about the operation and design of the safety system to lab staff
- Developed image processing code in MATLAB to improve accuracy of diesel flame lift-off length measurement
- Researched techniques for precise temperature measurement of small components within the optical test engine cylinder
- Sourced and obtained quotes for high precision temperature sensors

UC Berkeley, Pacific Earthquake Engineering Research Center — Jul 2018 – Sep 2019
Mechanical / Civil Engineering Intern — Berkeley, CA

- Calibrated and mounted precision sensors onto test specimens for movement and vibration data collection
- Mounted industrial equipment to the earthquake simulation platform for durability testing using overhead cranes
- Fabricated custom steel adapters to secure industrial products to earthquake simulation platform
- Constructed a to-scale set of bridge columns for a graduate student project involving rebar configurations
- Carried out compression tests for clients using the facility's 4-million-pound hydraulic press

RELEVANT COURSEWORK

Certificates: Font End Engineering (Codecademy, In Progress), Machine Learning (Stanford University, May 2022)
Programming: Java Programming, MATLAB Programming, Engineering Analysis (Numerical Methods and Algorithms), Experimental Methods (Statistical Analysis in R), Mechatronics (C++), Stability and Control of Aerospace Vehicles (MATLAB)
Mathematics: Calculus I, II, III, Linear Algebra, Differential Equations
Communications: Writing in Engineering

ADDITIONAL INFORMATION

Programming Languages: JavaScript, HTML/CSS, C++, MATLAB/Octave, Python, Java, R, EES
Skills: Statistical analysis, micro-controller programming, sensor data collection and processing, mechatronics, control system design and analysis, numerical analysis, rapid prototyping, technical writing.
Spoken Languages: English, French