Nicolas Ventura, PE

Contact

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Languages

English (Native)
French (Proficient)

Certifications

Control Systems Professional Engineer (PE) 2024
California License #7709

Engineer In Training (EIT) 2021
California Certification #173091

Awards

Berkeley Lab Spot Award 2023
For outstanding workplace contributions

Dean's Honors List 2017-2021
Top 16% in the college of engineering, earned 4 times

UC PLASMA Startup Competition 2020

1. First place overall
2. Most improved

Education

University of California, Davis 2017-2022

B.S. Mechanical Engineering: 3.8/4.0 GPA

M.S. Mechanical & Aerospace Engineering: 3.9/4.0 GPA

Skills

Software GitLab WebCTRL ServiceNow dcTrack Grafana

Programming JavaScript TypeScript npm git Python Excel

Experience

National Energy Research Scientific Computing Center Jun 2021 - Present

Critical Facilities Engineer Associate

- Monitored environmental conditions of HPC systems to ensure facility health
- Assisted in the transition for data center operations during poor air quality events by creating a flowchart for operators
- Managed data center assets and change orders by deploying dcTrack, our data center infrastructure management software
- Developed redundancy in our facility automation system for the cooling water loop flow rate, initially a single point of failure

Graduate Student Research Assistant

- Created self-updating visuals of power and water usage effectiveness for the high performance computing center
- Automated the integration of infrastructure data into the operational data analytics model by creating software to validate building performance monitoring points
- Supported the upgrade of Modbus power data into a VictoriaMetrics database
- Published and copyrighted a Grafana plugin that displays air conditions on a psychrometric chart in real time

UC Davis Sep 2021 - Dec 2021

Teaching Assistant

- Prepared 25 undergraduate students for industry using slides and examples to teach mechanism analysis and design with C++ object oriented programming and SolidWorks
- Facilitated learning in weekly class discussion and labs
- Graded all assignments and projects throughout the course