

Contact

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nicolasventura.com

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Expertise

- Object Oriented Programming
- Controls Systems
- Automation
- Data visualization and analysis

Languages

English (Native)

French (Proficient)

Certifications

Engineer In Training (EIT) 2021

AutoCAD Certifications 2019

- Essential Training
- Express Tools Workflow
- Plotting & Publishing

Awards

Dean's Honors List 2017-2021

- Top 16% in the college of engineering
- Earned 4 times

UC PLASMA Startup Competition 2020

- First place overall
- Most improved

Nicolas Ventura

EIT, M.S. Mechanical & Aerospace Engineering

Education

University of California, Davis

2017-2022

B.S. Mechanical Engineering - GPA: 3.8/4.0

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

Skills

Software AutoCAD GitLab ALC WebCTRL dcTrack Grafana

Programming C# JavaScript C/C++ Python Matlab 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

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 laboratory
- Graded all assignments and projects in the class