Christina Santa Lucia

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Education

Columbia University, New York, NY
M.S. in Mechanical Engineering, Energy Systems Concentration

University of Connecticut, Storrs, CT
B.S. in Mechanical Engineering
Honors: UConn Day of Pride Full Academic Scholarship

Experience

UltiMaker, New York, NY

Applications Engineer, Education   Jun 2024 – Present
- Delivered technical guidance to schools and universities, supporting curriculum-aligned 3D printing integration and providing post-sale training and support to drive long-term success
- Drove customer-centric product development by partnering with cross-functional teams, software developers, product managers, and QA, to align technical improvements with user needs
- Collaborated with the marketing team to script, film, and produce educational videos for training both new and advanced customers on our 3D printing technologies and workflows

Staff Mechanical Test Engineer   Feb 2022 - Jun 2024
- Redesigned hardware testing and data visualization workflows by implementing Python-based automation and Jupyter Notebooks, saving over 500 hours annually and increasing testing efficiency
- Led collaboration with engineering teams and third-party manufacturers to develop, manage, and maintain robust testing procedures and a suite of 25+ internal automation scripts
- Facilitated adoption of Linux-based automation tools by mentoring 15+ engineers, technicians, and customers in executing test scripts and leveraging visualized test data

BloombergNEF, New York, NY   Apr 2021 – Jan 2022
U.S. Power Research Analyst
- Conducted in-depth analysis of the U.S. power market using MySQL and Python to model generation capacity, forecast power demand, and assess policy impacts, delivering data-driven insights that informed investors, utilities, and policymakers
- Published and presented technical reports to clients and internal teams, effectively communicating complex findings to drive sales of data licenses and services to power plant operators and investors

Lawrence Livermore National Laboratory, Livermore, CA   Jun 2020 – Apr 2021
Materials Engineering Division Graduate Intern
- Investigated novel high temperature heat exchanger materials and geometries to increase the theoretical efficiency of concentrated solar power systems from 35% to 50%

Publications

Santa Lucia, C. ***Evaluation of Ceramic Heat Exchanger for Next-Generation Concentrated Solar Power.***
    United States: OSTI.gov, 2020. Web. doi:10.2172/1734612.

Skills

Programming/Computing: Python, Jupyter, GitHub, MATLAB, MySQL, Linux
Engineering: Fusion360, Prototyping, Iterative Design, 3D printing, Soldering
Communication: Jira, GitHub, GSuite, Slack, Tableau, Technical Writing, Multidisciplinary Collaboration
Outreach: Make48 Tool Tech, Passion for mentoring young female engineers