

DANNA XUE

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Engineer and content creator interested in the intersection of technology and media.

EDUCATION

Stanford University, Class of 2020

Stanford, CA 2016 - present

M.S. Candidate in Sustainability Science, B.S. Mechanical Engineering, Minor in Music

Interdisciplinary Honors in Science, Technology, and Society

WORK EXPERIENCE

Technical Program Manager Intern, TESLA Industrial Storage

September 2020 - Current

- Led multidisciplinary teams from A to C build, built schedule and provided weekly updates for executive/director reviews
- Coordinated schedule, material tracking, resource prioritization, design reviews, and global supplier meetings

Energy Sector Research Fellow, Engineering for Change

June 2020 - September 2020

- Conduct sustainable development research for Autodesk as an Energy Sector Research Fellow.
- Developed an Engineering for Global Development report, presented at *ASME Impact Engineered* in October 2019.

Researcher, Mechanical Engineering Department: Dabiri Lab

April 2018 - January 2019

- Designed and executed a cost-effective experiment to determine effects of temperature from viscosity on *Aurelia Aurita*.
- Over 8 months, tracked the effect of viscous forces on jellyfish morphology (400+ hours spent in lab).
- Presented findings at the SURI Symposium.

Technical Program Manager Intern, Amazon Hardware Lab126

June 2019 - September 2019

- Performed engineering and data analysis with regards to mechanical-related customer safety escalations.
- Designed and conducted reliability tests, assisted with triaging, and composed a white paper addressing the findings.

Hardware Engineering Intern, NASA Ames Research Center

June 2018 - September 2018

- Developed a statistical analysis app to measure flux intensity and compare spectral energy distribution.
- Assisted with data pipeline construction for telescope and hardware calibration.

Intern, StartX Accelerator

June 2017 - September 2017

- Piloted the alumni review panel and co-launched the minority founder database.
- Identified trends in the founder database and evaluated metrics for success and program effectiveness.

PROJECT EXPERIENCE

Energy Capstone Project, Mechanical Engineering Department

2019 - 2020

- Performed energy validation and user research for developing rural communities in China.
- Over two quarters, developed and tested a fully functional solar microgrid that met the power needs of Hang Lai Villagers.

Co-President, Stanford Space Initiative

2018 - 2019

- Lead the largest project-based student engineering group at Stanford, with over 300 active members.
- Interface with university administration and manage six technical teams, and launched the Mars Team in 2019.

Technical Project Lead, Stanford Space Initiative

2017 - 2019

- Conducting research and designing experiments for the aerodynamics & payload design of parafoil recovery systems.
- Design and fabricate boards and 3D-printed payloads using Altium and Solidworks.
- Led workshops on Solidworks, ANSYS, Altium, and organized an Industry Design Review panel.

VOLUNTEER & COMMUNITY INVOLVEMENT

Course Instructor, Seeds of Change at Clayman Institute

September 2018 - 2019

- Coach high school female students through an integrated curriculum that builds competence, resilience, and leadership strategies for emerging leaders.

Speaker, ASME Impact Engineered Conference

October 2019

- Present a report which explores engineering for global development research efforts in Mechanical Engineering programs across North America.

ACADEMICS, SKILLS, & INTERESTS

- **Tech Summary:** Python, JIRA, MATLAB, ImageJ, Altium, Adobe Illustrator, Solidworks, Java, C++, Javascript, HTML/CSS, SQL, Excel
- **Mechanical Courses:** Systems & Controls, Heat Transfer, Manufacturing Processes & Design, Mechanics, Thermodynamics
- **Awards & Fellowships :** Stanford Concerto Competition 1st place (2017), American Protege International Competition 1st place (2014), Schoenfeld International Competition 1st place (2013), Colburn Concerto Competition Winner, Branner Service Scholar