

JOHN WHITWORTH

(907) 887-9645 JOHNWHIT@ICLOUD.COM

driven to get hands-on with engineering problems that require creativity, balance, and leadership

Plenty

EXPERIENCE

Senior Mechanical Design Engineer

Sept. 2020 - Now

- ◆ Own development of 2nd generation grow-tower Cleaner system
- ◆ Mechanical lead on Cleaner frames (DFM heavy) while collaborating on the internals
- ◆ Own development of Seeder with automated adjustments to accommodate 15+ varieties
- ◆ Coordinate and execute install and validation of above machines in Los Angeles farm
- ◆ Experience with precision weldments, vacuum systems, tool-less access, and more
- ◆ Develop and mentor on internal modeling and drawing standards/best-practices
- ◆ Identified as an automation team Technical Leader, highly involved in design reviews
- ◆ Diversity, Equality, and Belonging Engineering Council Member

Mechanical Design Engineer

Aug. 2018 - Sept. 2020

- ◆ Design and deploy Plenty's seed through seedling system for 1st commercial farm
- ◆ Work with international partners on design and deployment of automation system
- ◆ Scale young plant system architecture to ~20x 1st farm output for Los Angeles farm
- ◆ Collaborate on project development process and documentation for driving decisions

Mechanical Design Engineering Intern

Summer 2017

- ◆ Design and develop first prototypes of harvester and automation-friendly grow-towers
- ◆ Prototypes used to gather largest funding round in history of agricultural technology
- ◆ Own design and production of high-quantity injection molded part with 3-part tooling
- ◆ Inventor on several patents in vertical farming hardware and techniques

Product Realization Lab

June 2016 - June 2018

Teaching Assistant

- ◆ Supervise and advise 500+/yr students in Stanford's maker lab
- ◆ Co-Teach Design & Manufacturing course for 85 students

Stanford University

EDUCATION

B.S. & M.S. in Mechanical Engineering

2016 / 2018

- ◆ Mechatronics Depth & Product Realization Breadth
- ◆ President of Stanford Outdoors

SKILLS

Multi-Fidelity Prototyping, Machine Design, Manufacturing & Fabrication, Mechatronics, Design Thinking, CAD, PDM, PLM, Having Fun in the Mountains

portfolio at
JOHNWHITWORTH.CO