

# JOHN WHITWORTH

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

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## Plenty

### EXPERIENCE

#### Senior Mechanical Design Engineer

Sept. 2020 - Now

- ◆ Own development of 2nd generation grow-tower Cleaner system
- ◆ Mechanical lead on machine frames (DFM heavy) designed to contain high pressure fluids
- ◆ Designed system for precise, robust, and repeatable location of high-pressure nozzles
- ◆ 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

- ◆ Designed and deployed Plenty's seed through seedling system for 1st commercial farm
- ◆ Worked with international partners on design and deployment of automation system
- ◆ Scaled young plant system architecture to ~20x 1st farm output for Los Angeles farm

#### Mechanical Design Engineering Intern

Summer 2017

- ◆ Designed and developed first prototypes of harvester and automation-friendly grow-towers
- ◆ Prototypes used to gather largest funding round in history of agricultural technology
- ◆ Owned 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

- ◆ Supervised and advised 500+/yr students in Stanford's maker lab
- ◆ Co-Taught Design & Manufacturing course for 85 students

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## Stanford University

### EDUCATION

#### B.S. & M.S. in Mechanical Engineering (GPA 3.80 & 3.95)

2016 / 2018

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

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### SKILLS

Multi-Fidelity Prototyping, Machine Design, Manufacturing & Fabrication, Mechatronics, Design Thinking, CAD (SW, Catia), PDM(3DX, SW-PDM), PLM (Arena), Having Fun in the Mountains

portfolio at  
JOHNWHITWORTH.CO