Role: Mechanical Design Engineer, Internship
Dates: January 2020 - June 2020 (6-8 months)
Hiring Manager: Andrew James
Email: ajames@plenty.ag

www.plenty.ag
https://www.youtube.com/watch?v=GO0fRU46ZHc

The engineering team at Plenty is on a mission to completely redesign the way humanity grows food in order to satisfy the nutritional needs of the world by making the highest quality produce available to everyone. Doing so requires us to reimagine farms as highly integrated and aggressively optimized engineered systems and to draw upon experience and strategies from high volume product design. On this team, you will conceptualize, design, integrate, and deploy mechanical components and assemblies in our primary Vertical Grow Rooms. You will support our broad and vertically integrated engineering team, closely collaborating with structural, thermal, electrical, controls, automation and software teams. In this role, you will apply your skills, experience, and creativity to accelerate humanity’s progression toward a perpetual food system scaled to meet the needs of our growing and changing world.

What you’ll do

- Support the detail design and production launch of our next full scale farm
- Interact with complex sub-systems and cross-functional teams with exposure to structure, devices and lighting, conveyance, air handling, and irrigation
- Employ system level analysis to consider trade-offs between function, deployment time, operational costs, and capital investment
- Emphasis on designing for offsite fabrication and assembly rather than onsite construction.
- Use CATIA V6 to develop designs and drawings
- Perform mechanical design, analysis, and validation of components and systems
- Prototype designs and design concepts and iterate based on findings
- Work with suppliers and internal collaborators to define manufacturing process for components and subsystems
- Perform root cause analysis of test failures, field failures, or production issues in order to establish containments and countermeasures

What we’re looking for

- 3rd or 4th year Mechanical Engineering student
- Passion for design-for-manufacturing and lean manufacturing principles
- Outstanding analytical and creative problem solving mindset, with strong drive to harmonize various functions into a product
- Experience owning projects, including working independently, managing projects with tight timing constraints, leading and completing multiple design engineering projects
- Strong hands-on experience in solid modeling (Solidworks, Catia, etc)