

Cameron Magari

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Education

Georgia Institute of Technology

Atlanta, GA

BS in Mechanical Engineering

August 2018 - May 2022

Experience

Clean Crop Technologies:

Boston, MA

Senior Mechanical Engineer, Mechanical Engineer:

June 2024- Feb 2026

- Drove end-to-end R&D for conveyance subsystem; including vibratory conveyor design and an integrated, closed loop controller for maintaining material depth across multiple lanes using optical sensors, resulting in more than a 2 times throughput increase.
- Supervised design, build and testing of Clean Crop's latest Jupiter commercial machines, including FAT, SAT, and PQ processes.
- Wrote and maintained the PLC/HMI code on latest production machines and deployed a MQTT-based data pipeline to continuously collect, realtime and historical data- accessible via online dashboard.

Silverside Detectors:

Boston, MA

Mechanical Engineer:

June 2022 - November 2023

- Ran experimental efforts to characterize a novel approach to Cosmic Ray Neutron Sensing (CRNS) for soil moisture applications via a dense grid of low sensitivity detectors. Experiment entailed the construction of a 30 node, subterranean grid of sensors carrying self-contained modules of neutron detectors accompanied by datalogging and communication hardware.
- Designed, tested, and validated hardware for deployment in harsh outdoor conditions
- Utilized heat-mapping and other data analysis techniques to enhance understanding of CRNS experimental data.
- Engineered new detector architectures; including a low-cost miniature chamber and a new generation of chamber with a 30% volumetric efficiency boost.
- Established improved manufacturing processes and tools for existing production and new detectors.

Norwich Solar:

Norwich, VT

Intern:

Summer 2021

- Designed and fabricated full scale and subscale test rigs for a solar thermal energy storage system, pertaining to determining thermal efficiency, leak rate, and wear characteristics of components, among other key metrics.
- Setup and conducted data acquisition of key metrics and subsequent analysis of the gathered data.

Skills

Programs and Languages: SolidWorks, OnShape, MATLAB, Python

Manufacturing: DFMA, CNC, Lathe, Mill, 3D Printing, Lean Six Sigma Green Belt