

# Carla Pinzon

MIT alum, Stanford EE PhD student, Sonos Power Engineer  
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## Founder & CEO of Expand Power

### Education

#### Stanford

- PhD Candidate in Wide Bandgap Lab, 2020 - 2022

#### MIT

- M. Eng. in Electrical Engineering and Computer Science, 2018 - 2020
- B. S. in Electrical Engineering with minor in Mechanical Engineering, 2014 - 2018

### Expertise

Power electronics, wide bandgap devices, rapid prototyping, design for manufacturing

### Industry Experience

Sonos, L3Harris / Open Water Power, Fitbit, Heila Technologies, Astranis, OpenROV

Carla, the founder of Expand Power Technologies, an early stage venture modernizing the grid through improved power electronics, received her M.Eng. and B.S. in Electrical Engineering from MIT and has an extensive technical background in power electronics and electrical engineering. She has experience creating high voltage circuits and printed circuit boards with wide bandgap devices through her Ph.D. research at Stanford and MIT.

Carla has experience in all stages of power electronics circuit design, from selecting topologies to fit product requirements, to choosing parts while optimizing for challenging constraints, to designing the placement, layout, and stack-up of printed circuit boards. She has designed and tested high efficiency, compact electrical systems for a variety of companies and has excellent lab skills in bring up, testing, and validation.

Furthermore, through her current full time role at Sonos as a Power Electronics Engineer in the Advanced Technology team, Carla is first hand learning how to commercialize new renewable technologies through investigation of internal use cases, analysis of competing technologies, establishment of testing procedures, and creation of prototypes with recommendations for system integration and sourcing to convince stakeholders to adopt these technologies into the Sonos ecosystem. She is also the EE lead of Sonos' new category product, designing critical electronic subsystems and test plans while leading JDM teams to meet critical schedule milestones.

Additionally, Carla has leadership and organizational experience, having led and managed multiple students through technical projects. In addition, she led a six-person team in exploring the

grid modernization space through her leadership position at Stanford Climate Ventures. Carla has also implemented new standards, requirements, and procedures for technical designs for small startups looking to scale. She is building an advisor network with experience in selling to utilities and in designing high power grid systems.

Having grown up in South Florida, Carla is passionate about sustainability and is obsessed with electrification—she is dedicated to working on Expand Power full time, and in doing so, pushing forward the EV revolution.