

# COLLEGE OF ENGINEERING INDUSTRY INSIGHTS



## Roberto Andaya

B.S. in Mechanical Engineering, 2017;  
M.S. in Mechanical Engineering, 2018

Current Title: Hardware Engineer

Company: SlateSafety



### Tell Me About Your Job



SlateSafety is a startup with the goal of selling custom wearable devices for monitoring workers, mainly for detecting heat stress. I design CAD models of wearable devices and create 3D-printed prototypes using various methods and companies. Once the physical prototypes are vetted for field use, we injection mold the enclosures. There is a lot of checking to see if the parts have uniform thicknesses and the required amount of draft angles.

### How did your major or classes at CMU help prepare you for your job?

The stress and thermal analysis classes instantly helped me understand many concepts and issues. I also took a lot of mechatronics and electrical courses to have a good enough background to make design decisions with an electrical engineer. I also took entrepreneurship classes that helped me make fast decisions and think about what would be best for the company's success.



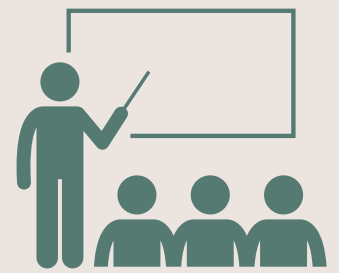
### What other activities, hobbies, or experiences helped to prepare you for a job in your industry?

I made engineering projects as a hobby, worked at maker-spaces at CMU, and had hands-on experience. I was in clubs like Buggy and Rocket Club. I did school competitions like Build18, general hackathons, and entrepreneurship competitions like the McGinnis Venture Competition.



### What classes would you recommend to a student who is interested in a job in your industry?

ME Classes: Gadgetry class (Undergrad)  
Entrepreneur Classes: Intro to Entrepreneurship (Undergrad)  
IDeATe: Physical Computing (Undergrad)



### What advice would you give to a student who is in the early stages of considering a career in your industry?



Working in a startup makes you wear many hats. At this point, I am in between a mechanical engineer and an electrical engineer. Have a passion for learning and become well-rounded in mechanical, electrical, and software engineering.

### What advice would you give to a student who is preparing to apply for an internship/job in your industry?

Make a portfolio to show your work. Mechanical Engineers have the unique advantage that the pictures and documentation of their projects speak for themselves. I have gotten many jobs just based on my website portfolio. My Website portfolio: <https://www.randaya.com/>

