

# ANDRES ESTEVE

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🌐 [www.andresesteve.com](http://www.andresesteve.com)

## EDUCATION

**BSc Mechanical Engineering, University of Colorado Boulder** *August 2014 – May 2019*

+ Cumulative GPA 2.825 (3.056 for engineering coursework).

+ Relevant Courses: Design Aesthetics, Advanced Product Design, Manufacturing Processes.

## PROFFESIONAL EXPERIENCE

**Synapse Product Development** ([link](#))

**Seattle, WA**

**Mechanical Engineering Intern**

*June 2019 – present*

- + Collaborated with software and electrical engineers throughout the development of multiple projects.
- + Performed mechanical tests on parts/assemblies (consumer electronics) for a Fortune 500 company.
- + Co-designed a complex imaging system with a dynamic pointing mirror along with its control system.
- + Exposure to the product development timeline from client scoping to manufacturing troubleshooting.
- + Assisted design reviews for components across a wide range of products in Synapse's portfolio.

**Electro-Mechanical Products Inc.** ([link](#))

**Denver, CO**

**Manufacturing Engineering Intern**

*May – August 2018*

- + Collected and analyzed efficiency data from CNC mills and lathes, reported trends to management.
- + Determined solutions to effectively manufacture parts by optimizing fixtures and organizing work flow.
- + Calculated statistical process control charts of coolant concentration in machines preventing misuse.
- + Automated a flow inspection system and an arbor press to effectively manufacture laser cooling parts
- + Worked with quality control personnel to develop a flatness test gauge for heat management plates.

**CAFESCA Instant Coffee** ([link](#))

**Tapachula, México**

**Student Placement**

*June – July 2016*

- + Developed methods to cost effectively store and feed biomass into the boiler (steam production).
- + Inspected low-pressure vessels for dry freezing, compared data to theoretical models looking for leaks.

**Simplemente Madera Millworks** ([link](#))

**Managua, Nicaragua**

**Carpenter Assistant**

*June – July 2015*

- + Assisted with hardwood furniture manufacturing and fiber-glassing wooden surfboards.
- + Trained in agroforestry sustainable management at their various teak and mahogany plantations.

## ADDITIONAL EXPERIENCE

**CAD Engineer: Design Center Colorado**

**Boulder, CO** *August 2018 – May 2019*

+ Capstone university project collaborating with Medtronic and 6 teammates where we designed, fabricated and programmed a non-destructive weld test system for a set of micro welds on a surgical device. A scanning laser along with a camera with Machine Learning were utilized to automate the task.

**Deckhand: Transatlantic Crossing S/V Argo**

**Bermuda-Italy** *June – July 2014*

+ Crewed a training sailboat for over 4000 nautical miles for 2 months. Earned an International Flotilla Skipper license (IYT). Led me to do more sailing like racing the J/Fest Seattle onboard "Uproar" a J/80.

## ENGINEERING PROJECTS

Full portfolio, detailed explanations and pictures can be found here: [www.andresesteve.com](http://www.andresesteve.com)

- + Kiteboard construction from fiberglass/wood core, extensive studies done to optimize performance.
- + Racer/Cruiser sailboat CAD model currently in development on SolidWorks.
- + Drill powered tricycle for a competition, FEA study was performed on the tricycle's frame.

## GENERAL SKILLS

- + Programming: Matlab (200hrs+), Excel VBA, Python, LabView (beginner).
- + CAD/CAM: SolidWorks (500hrs+), AutoCAD, Rhino (intermediate), Fusion 360 (CAM).
- + Language: Spanish (native), English (fluent), French (fluent).
- + Machine: Mill, Lathe, MIG Welding, Fiberglass/Composite laminate construction, General Woodwork.