

ANDRES ESTEVE

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EDUCATION

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

+ Cumulative GPA 2.825 (3.056 for mechanical engineering coursework).

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

PROFFESIONAL EXPERIENCE

Industria Mexicana de Equipo Marino (IMEMSA) ([link](#)) **Mexico City, Mexico**

Mechanical/Composites Engineer

January 2019 – Present

+ Developed design proposal of different boats and finalized layout changes on a 26ft fiberglass boat.

+ Designed a center console among other parts and their tooling which I personally CNC machined.

Synapse Product Development / Cambridge Consultants ([link](#)) **Seattle, WA**

Mechanical Engineering Intern

June – December 2019

+ 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 workflow.

+ 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 luxury 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.

GENERAL SKILLS

+ Programming: Matlab (200hrs+), Excel VBA, Python, LabView (beginner).

+ CAD/CAM: SolidWorks (CSWA, 700hrs+), Rhino (150hrs+), Orca3D (hydrostatics), Fusion 360 (CAM).

+ Language: Spanish (native), English (fluent), French (fluent, poorly written).

+ Machine: Mill, Lathe, MIG Welding, Fiberglass/Composite laminate construction, General Woodwork.