

Andres Esteve

Mobile Phone: +1 720-548-0939

Website: www.andresesteve.com

Email: esteveandres1@gmail.com

EDUCATION

BSc Mechanical Engineering, University of Colorado Boulder

expected May 2019

GPA: 2.751 (3.3 Fall 2018)

- Space Studies minor
 - Relevant Courses: Component Design, Manufacturing Processes, Advanced Product Design
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PROFESSIONAL EXPERIENCE

Electro-Mechanical Products Inc.

Lakewood, Colorado

Manufacturing Intern

June-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.
- Developed a microcontroller variable force arbor press to flatten stock material into a strict tolerance.
- Designed housing and control logic for a pressure decay testing apparatus (determine heat dispersion).
- Worked with quality control personnel to develop a flatness test gauge for heat management plates.

CAFESCA Instant Coffee

Tapachula, México

Student Placement

June-July 2016

- Developed methods to more cost effectively store and feed biomass into the boiler (steam production).
- Inspected a low-pressure vessel for dry freezing, compared data to theoretical models looking for leaks.
- Supported human resources in the implementation of LEAN and ISO 9000 standards.

Simplemente Madera Millworks

Managua, Nicaragua

Carpenter Assistant/Maintenance

June-July 2015

- Assisted with hardwood furniture manufacturing, maintenance and fiber-glassing components.
 - Trained in agroforestry sustainable management practices at their various timber plantations.
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ADDITIONAL EXPERIENCE

CAD Engineer: Medtronic/Design Center Colorado

Boulder, Colorado September 2018- present

- Currently developing a non-destructive weld test system for a surgical device. Frequently give presentations to client. Strengthen my skills for automated mechanical designs and technical drawings.

Deckhand: Transatlantic Crossing S/V Argo

Bermuda-Italy June-July 2014

- Crewed a training sailboat from Bermuda to Italy earned an International Flotilla Skipper license (IYT)

Volunteer: Museo de Arte Popular (MAP)

México City September 2013-March 2014

- Assisted with MAP's annual fundraising event and worked with indigenous artists to promote Mexican art.

Trainee: PINSA Institutional

Mazatlán, México June 2013

- Managed the tool inventory, ordered parts serving the construction of Latin America's largest shipyard.
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ENGINEERING PROJECTS

- Kiteboard construction from fiberglass/wood core, extensive studies done to optimize performance.
 - Calculated necessary turbomachinery components for an imaginary powerplant using industry standards
 - Design and programming of an Arduino controlled variable force pneumatic arbor press.
 - Various projects regarding DAQ, Matlab and statistical process controls.
 - Drill powered vehicle, head of CAD and manufacturing in a team of 6.
 - Aquaponic garden design/construction Arduino controlled data to maintain biological parameters.
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GENERAL SKILLS

- Programming: Matlab (200hrs+), Excel VBA, Mathematica, Python, LabView (beginner), C++ (beginner).
- CAD/CAM: Solidworks (500hrs+), AutoCAD, Fusion360, Rhino (beginner), Mastercam (beginner)
- Language: Spanish (native), English (fluent), French (fluent, poorly written).
- Machine: Mill, Lathe, MIG Welding, Fiberglass/Composites laminate construction.