

BRYAN TABOADA

(949) 940-5653

B.Taboada123@gmail.com

PROFILE

Dedicated individual looking to grow within Entegris. Creative problem solver who is adept in trouble-shooting and detailed design. Background as a strong team player with a commitment to maximizing personal output and furthering the mission of the team.

EDUCATION

❖ **Denver University Web Development Bootcamp** – Present: Working on becoming a front end webdeveloper. Expected

❖ **San Diego State University** Sep 2016 — May 2019: Bachelor of Science Mechanical Engineer; GPA 3.39/4.0 San Diego

PROJECTS

❖ **Computer Aided Design Patio** September 2022: By means of contacting local zoning law administrations, I drafted plans for an add-on backyard patio that followed building guidelines. Specifying footer locations, depths, quantity, as well as creating a bill of materials for the entire build, I secured a building permit for a future build.

❖ **Camper Van** Sep 2021 – Feb 2022: Using my knowledge of engineering and wood working, I drafted an interior that maximizes space and utility. I created a self-sufficient dwelling complete with solar, AC power, low voltage DC electrical, a custom LiFePO4 battery, roof ventilation, heating, carpentry and plumbing: hot water, sink, shower and a bathroom. One of the most positive outcomes of this endeavor was hands-on experience with electricity and creating a product within a specific package size.

❖ **Tesla Powered F-100** Feb 2018 — Dec 2018: In a group of four SDSU ME majors, we designed, produced professional documentation, engineering drawings, and manufactured components to outfit a Tesla Drivetrain to a 1953 Ford F100. Starting with a barebone frame, we designed a motor cage, independent rear suspension, and retrofitted front clip that would handle the approximate stresses of a daily driver.

PROFESSIONAL ELECTIVES

❖ **Fundamentals of Manufacturing** Feb 2019 — May 2019

❖ **Nonmetallic Materials** Feb 2018 — May 2018

❖ **Automatic Controls Systems** Aug 2018 — Dec 2018

TECHNICAL SKILLS

❖ **Programs and Manufacturing** Solidworks; FEA; Matlab; Creo Parametrics; ANSYS; Microsoft Word, PowerPoint, Excel; Mill Machine; Water Jet; Mig Welding; Soldering; Zoom;

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Professional Profile

I am excited to be applying for the position of manufacturing technician, and believe becoming a technician at Entegris will lay the groundwork for a professional life of learning and betterment. With a broad workload, I wish to expand my areas of proficiency to overcome technical problems. Planning, building, and improving upon any project that crosses my path has always been a passion of mine. Through my education at San Diego State University, studying for the Fundamentals of Engineering exam, and work experiences, I am ready to join the Entegris team.

Skills

- | | | |
|----------------------------------|-----------------------|------------------|
| ● Verbal & Written Communication | ● ANSYS | ● Water Jet |
| ● Data Analysis | ● Microsoft Suite | ● Mig Welding |
| ● Detail Oriented | ● Automation Software | ● Soldering |
| ● Solidworks | ● Matlab | ● Self-motivated |
| ● Creo Parametrics | ● Mill Machine | ● Organized |

Projects

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- **Camper Van** Sep 2021 – Feb 2022
 - Using my knowledge of engineering and wood working, I drafted an interior that maximizes space and utility. I created a self sufficient dwelling complete with solar, AC power, DC power, a custom LiFeP04 battery, roof ventilation, heating, carpentry and plumbing: hot water, sink, shower and a bathroom. One of the most positive outcomes of this endeavor was hands-on experience with electricity and creating a product within a specific package size.
- **Lithium Iron Phosphate Battery** March 2021
 - Successfully researched, sourced, and assembled a 3.5kwh battery bank for an RV solar application. This included gauging high current wires, soldering, programming a BMS, and installing a proper sized circuit breaker to ensure safety.
 - From the battery, I installed many low voltage direct current accessories with a fuse box, switches, and relay's to help facilitate efficiency with minimal power loss.
- **Tesla Powered F-100** February 2018 - December 2018
 - In a group of four SDSU ME majors, we designed, produced professional documentation, engineering drawings, and manufactured components to outfit a Tesla Drivetrain to a 1953 Ford F100.

- Starting with a barebone frame, we designed a motor cage, independent rear suspension, and retrofitted front clip that would handle the approximate stresses of a daily driver.
- **Autonomous Recycling Sorter** August 2017 - December 2017
 - Prototyping an autonomous recycling sorter, which distinguishes between glass, plastic, tin, and aluminum. This project entailed research, design, and presenting the prototype in a professional manner.
 - I drafted the hopper using SolidWorks to allow one recyclable material to be passed on to the next systems. It was successfully manufactured using additive manufacturing.
 - Lastly, I managed the final presentation of the prototype with the theoretical larger scale potential.

Education

San Diego State University

San Diego, CA

- Bachelor in Science Mechanical Engineer
- Cumulative GPA 3.39/4.00

Irvine Valley College

Irvine, CA

- Transfer program completed
- Associate in Physics
- Associate in Mathematics

Relevant Coursework

San Diego State University (SDSU)

- E E 204 - Principal Electrical Engineering
- M E 304 - Mechanics of Materials
- M E 310 - Engineering Design: Intro
- M E 314 - Engineering Design: Mechanical Components
- M E 330 - Control Systems Lab
- A E 340 - Fluid Mechanics
- A E 341 - Fluid Mechanics Lab
- M E 350 - Thermodynamics
- M E 351 - Engr Thermodynamics
- M E 452 - Principles of Heat Transfer
- M E 490A - Engineering Design: Senior Project
- M E 490B - Engineering Design: Senior Project
- M E 495 - Mechanical and Thermal Systems Laboratory
- M E 496 - Fundamentals of Manufacturing
- M E 520 - Intro to Mechanical Vibrations
- M E 540 - Nonmetallic Materials

Presentations

SDSU Mechanical Engineering Capstone Project: Tesla Powered F-100

Cameron Carroll, Spencer Laure, Bradley Ringler, **Bryan Taboada**

ASME Award - First Place given by Mark Bell chair and Steve Zawadzki secretary.

SDSU ME 310 Engineering Design Intro: Autonomous Recycling Sorter

Jason Agtina, Christian Batungbacal, Mathew Chu, Francisco Covarrubias, Ryan Landeza, Brian Middlekauff, Chris Moon, Hannah Morgan, Hannah Pollek, Ian Porter, Edgar Renteria, Bradley Ringler, Hieu Strub, **Bryan Taboada**

Awards

- ASME Capstone Project - First place for “Tesla-Powered 1953 Ford F100”

Work Experience

Tendit Group

Denver, CO

Highrise Window Washer

February 2023 - Current

- Here I have learned how to prioritize safety in the workplace. Patents and an attention to detail are high priorities when cleaning windows off the sides of highrise buildings. Here I currently safely operate lifts, booms, two rope systems, and large cable hung scaffolding.

Parks Management Company

Big Sur, CA

Camp Host

July 2022 - December 2022

- As a camp host, being able to adapt to several circumstances was necessary. The duties included performing basic campsite cleaning and maintenance, interacting with customers, running an off grid system, and helping with medical emergencies when they arose. Maintenance of the systems in such a remote location was my primary focus. Here I monitored generators, backup batteries, well water, bathroom and shower plumbing, and an isolated solar and battery system.

KBI General Contractors

Tustin, CA

Contract Worker

December 2021 - April 2022

- Following engineering plans, we worked to uphold a strict standard of quality workmanship and customer satisfaction by surpassing client's goals. Here I had hands-on experience with rough construction, plumbing, electrical troubleshooting, carpentry, and finishing touches for both commercial and residential buildings.

Ciufa Inc.

San Diego, CA

Expeditor

August 2019 - September 2021

- Worked at “Candor, by Giuseppe” in La Jolla. This was an upscale, casual, coastal, Italian bistro. I worked alongside the owner/Ceo where I was pivotal to dressing food and controlling the flow of the restaurant's outgoing orders.

Feast On This

San Diego, CA

Event Server

August 2018 - August 2019

- Feast On This is an upscale catering company that serves the greater San Diego area. I helped with setting up stations, decorations, serving food and drinks, and lastly cleaning up for events big and small.

WaveHuggers**Orange County***Surf Instructor*

April 2017 - September 2017

April 2016 - September 2016

- This was a summer job taking up to four people on private surf lessons. Keeping in mind the customer's safety was the priority.

Sentinel Group,**Laguna Beach, CA***Server Assistant*

August 2014 - July 2016

- Server assistant and food running at a beachfront at an American coastal cuisine. Communication and prioritizing workflow was paramount. I worked here part time while attending community college.

Buffalo Wild Wings**Aliso Viejo, CA***Line Cook*

July 2013-August 2014

- BWW was my first restaurant job that I took while going to college. Managing time between life, job, and school was essential.

Stephen & Sons**Irvine, CA***Account Assistant*

June 2010 - September 2010

June 2011 - September 2011

- I assisted with entering data into payroll applications, and organizing physical documents into digital documents.