

Ben Hayenga

Mechanical Engineer

(602) 881-7740 •

benhayenga@gmail.com •

benhayenga.com •

[LinkedIn](#) •

OBJECTIVE

Mechanical engineer graduate with a strong passion for finding innovative solutions to common problems. I have a history of designing and building many engineering-based projects including sheet metal assemblies, power management, high-powered audio systems including speaker enclosure design, programmable LED lighting, and 12V electrical systems. I am looking for a team where I can contribute to solving difficult problems in an economic way and make a difference in the quality of products delivered to customers. I am highly proficient in Solidworks and use this program regularly to create new components using primarily CNC laser cutting and 3D printing.

PROFESSIONAL EXPERIENCE

Alpha Technologies, LLC

Electrical technician Contractor, May 2020 – June 2020

- Undertake complex problem solving with power distribution systems.
- Maintaining and upgrading hardware and firmware.
- Assemble, evaluate, test, and maintain XM3 Power Supply Transformer to be used in international broadband communication cable systems.

Audio Express.

Car Audio Installer, March 2017 – July 2017

- Professional integration of amplifiers, speakers, radios, and other electronic systems into modern vehicles.
- Detailed understanding of installation techniques, car mechanics, and electronics.
- Experience in building 20+ CAD-designed subwoofer enclosures including ported, T-line, and 4th order boxes.

Ace Hardware

Retail Sales Associate, December 2016 – March 2017

- Assisted customers in finding creative solutions in the areas of hardware, manufacturing, and tools.

EDUCATION

San Diego State University - May 2022

Bachelor of Science in Mechanical Engineering

Minor in Finance

ADDITIONAL SKILLS

- Product Design in Solidworks
- CNC and 3D printer Operation
- Fluency in Machine Tools
- Part Selection and Procurement

PROJECTS

Beach Clean-up Bot (BCB)

- Led and managed a team of student mechanical engineers while working with the SDSU College of Engineering to design and build an autonomous tank-driven robot to clean litter from beaches.
- Created a fully defined CAD assembly in SolidWorks with over 300 components, 40+ custom 3D printed parts, and CNC laser-cut aluminum plates for all primary load-bearing components.

*Please see benhayenga.com for complete project portfolio