

DAVID BROOKS

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OBJECTIVE

Mechanical Engineering student with hands-on experience looking to apply knowledge gained during Senior Design Project and Cepheid Summer Internship towards a full-time job with a preferred start date of June 2023

EDUCATION

Northern Arizona University, College of Engineering, Flagstaff, AZ
Bachelor of Science, Mechanical Engineering
Business Minor

August 2017 - May 2023

PROFESSIONAL EXPERIENCE

Senior Design Project, Northern Arizona University, Head Test Engineer

August 2022 - May 2023

- Converting a Honda Del Sol to be fully electric using a Tesla small drive unit; design and test a kit capable of 200 mile range with the end product for the average consumer

Cepheid, Sunnyvale, CA, Consumables Engineering Intern

Summer 2022

- Performed automation validation for new source of grease allowing for a cost decrease of 10%
- Performed feasibility study on new recycled shipping materials
- Presented results to senior management
- Assisted new hire training for a Senior Engineer

Restoration and Modification of 1976 Jeep CJ7, Pleasanton, CA

May 2019 - Present

- Cleaned, repaired, and refinished all frame, undercarriage, and interior components
- Disassembled, rebuilt, and replaced engine, transmission, transfer case and differentials
- Designed suspension, roll cage and electrical systems

Task Rabbit, East and South Bay area, CA, Tasker

January 2021 - Present

- Perform various jobs (i.e. furniture assembly, design and construct a wedding backdrop, moving) in multiple environments requiring independent work and interpersonal skills

Learning Express Toys, San Ramon, CA Sales Associate

November 2020 - April 2021

- Received and inventoried product, assisted customers, installed security system

GuardLife Rescue, Various Bay Area Triathlon Races, Lifeguard and First Aid Tent Staff

May 2018 - August 2019

- Supervised triathlon swimmers, performed first aid and medical procedures at finish line medical tents
- Set up and tore down in-water race course buoys; Operated kayaks for surveillance and rescue

Peasant's Courtyard, Alamo, CA Busboy

May 2016 - June 2017

- Welcomed customers to restaurant, ensured enjoyable dining experience

LEADERSHIP EXPERIENCE

Water Polo Club Team, Northern Arizona University, Treasurer

August 2018 - May 2020

- Oversaw collection of money from 30 club members
- Organized and budgeted money to attend out of state tournaments; executed fundraising events

SPECIALIZED SKILLS AND AWARDS

Engineering Academy, Amador Valley HS, Pleasanton, CA

August 2013 - June 2017

Learned engineering skills through hands-on team projects and activities; Project Lead the Way curriculum
Three years of courses taken; Introduction to Engineering Design, Principles of Engineering, and Digital Electronics
Earned 2017 PLTW Scholar Award for academic success in the program

Programs: SolidWorks, PowerPoint, Autodesk, Excel, Google Drive

Fabrication Skills: Amateur welder: ex. charcoal grill, roll cage, suspension components, rock sliders; ROP auto specialist; Laser Cutter, CNC, 3D Printer, Drill Press, Lathe, Assorted Saws, Nail Gun, Soldering Iron, Multimeter, Basic Hand Tools

Relevant Courses: Designed and programmed trash picking up RC vehicle and received most creative award