

Dalton Radcliffe

dalton.j.radcliffe@gmail.com | 602-328-0221 | daltonradcliffe.com

Summary

Motivated BSE graduate seeking to further manufacturing prowess with a fast-paced company leveraging new technologies. Strong communication skills, resiliency and a solid work ethic to make contributions and advancements across teams and organizations. High energy team player with superior time management skills, eagerness and willingness to learn quickly, adept at instructing others and passionate about engineering profession.

Skills

- Siemens NX 12
- SolidWorks 2019
- GD&T
- MATLAB 2018
- NI Multisim 14.1
- Microsoft Office, Adobe CC

Education

Arizona State University, Polytechnic Campus, Mesa, AZ

Bachelor of Science of Engineering in Automotive Systems Engineering

3.51 GPA, Cum Laude

Relevant Academic Projects

2019 Senior Capstone: Stand-alone Motorcycle ABS

Participated in a multidisciplinary engineering student led capstone project to design and produce a Tier 2 ABS on non-ABS motorcycle, fully tested during manufacturing according to the most current SAE parameters, 20%-40% less accidents, averaging 5%-10% shorter stopping distances on dry and wet surfaces

2018 Spring: HyperDrive Driving Simulator, TCL, Project Leaders

Led a team of 3 engineering students to assist a research professor further his graduate students progress by programming multiple autonomous vehicle simulation scenarios in TCL; our results created a foundation of coded scenarios for the graduate students to develop further autonomous systems including vibrating seat belts, audible tones, HUD visual displays, covering 3 months of work

2017 Fall: Formula SAE Exhaust System

Led a team of 4 engineering students to assist the ASU:FSAE Engine Team by researching, calculating, designing and prototyping new exhaust for the team's Kawasaki ER6 650cc 2-cylinder engine for 2019; the ASU FSAE team went from #55 overall in 2018 to #30 overall in 2019, including #15 in acceleration and #13 in fuel efficiency, key metrics in designing powertrain components

Professional Experience

MODE, Inc. -Scottsdale, Arizona

November 2018-August 2020

MODE, Inc. is an engineering, manufacturing and production company utilizing state-of-the-art industrial technologies, applying innovative manufacturing concepts rapidly while establishing long standing partnerships. Our customer base has become largely diverse with design, engineering and full production services for large scale OEM corporations and smaller industries alike.

Drafter

September 2019-August 2020

- Creates drawing packets using Siemens NX 12 following GD&T to better communicate to clients
- Documents, records, analyzes manufacturing processes pushing the company towards ISO certification, reducing scrap parts and increasing productivity flow due to higher level of knowledge of all employees
- Researched, secured and updated a government CAGE code for DOD contracts, increasing company production
- Analyzing workflow to design assemblies for upgrades to CNC machines for increased production

Machine Operator

November 2018-September 2019

- Working in a precision machine shop with a fast-paced environment expected to setup, operate, maintain, and troubleshoot the tools and fixtures for CNC mills, lathes and saw to continue production on time for clients

The Armored Group, LLC-Dearborn Heights, Michigan

June 2018-August 2018

The Armored Group is an armored vehicle manufacturer specializing in three categories of bullet-resistant vehicles: armored personnel carriers (APC), personal protection vehicles, and cash-in-transit (CIT) vehicles. The world-class engineering and design team has the capability and experience to plan and build everything from an armored pick-up truck to off-road 4x4 APC and anything in between.

Design Engineer Intern

- Worked on a team of 4 engineers modeling armored vehicles in SolidWorks for contracts world-wide
- Designed sheet metal assemblies for full chassis builds for the US government to new assembly additions to TAG vehicles currently in use
- Vehicle platforms ranged from Cadillac sedans to Ford F-series chassis, partial or full builds
- Performed final walk-around check lists of vehicles that are being shipped worldwide to ensure quality and functionality
- Documented installations for company records during full production builds and photographed completed vehicles to build company presentations to present to clients for increased sales

Encore Creative-Tempe, Arizona

March 2017-October 2018

Encore Creative has evolved into one of the premier event production and design companies in the United States and international scene. Encore's passion is producing truly custom, one-of-a-kind events that showcase the collective creativity of our clients and our design/sales team.

Fabricator

- Worked on a team of 5 craftsmen designing and fabricating custom carpentry and metal works for corporate conventions, events and shows internationally, focused on quality and efficiency with limited workshop space

Certifications

Certified Solidworks Associate (CSWA)

April 2019

Community Involvement

Mountain Pointe High School Track Coach

January 2018-May 2018

- Invited to join the Mountain Pointe Pride Track and Field program as pole vault coach for beginners and returning vaulters
- Successfully assisted each of the 12 vaulters obtain a new personal record that season and a female athlete qualify for the State Championship after her second year of vaulting

Secretary of Desert Stangs of AZ Car Club

January 2015-December 2015

- Elected as the Secretary of the Desert Stangs of AZ Car Club in 2015 as the club progressed forward from a Facebook group full of friends into club meetings, cruises, toy drives, local and regional car shows
- Assisted in establishing club website and forum supported by the monthly membership dues
- Responsibilities included maintaining a list of running members, club discounts and local companies that mutually benefitted the club and businesses alike, documentation of all meeting minutes and publishing the minutes onto the forum for members who missed the meetings

Farmer's Market Seller for Abby Lee Farms

January 2014-May 2014

- Devoted weekend morning during college freshman year partnering with Abby Lee Farms to bring fresh, locally grown tomatoes and other produce to farmer's markets around the valley, serving as a brand ambassador in local market