Levon Markossian – Mechanical Engineer

Portfolio: http://www.levons.website | levonmarkossi@outlook.com

Related Professional Experience

Product Design & Reverse Engineer   Sept. 2019 – Present
Jet Parts Engineering (Seattle, WA)
- Research and understand part function, failure modes, and operating conditions
- Prepare models and drawings per ANSI/ASME Y14.5 GD&T standards
- Conduct inspection of sample parts and prepare detailed analysis reports based on dimensional data, manufacturing capabilities, and part function
- Determine appropriate material and performance specifications based on material analysis and part function
- Coordinates engineering support for FAA certification, procurement, and manufacturing

Engineering Consultant and Designer   Sept. 2019 – Present
Overspeed Motorsports (New Orleans, LA - Remote Work)
- Design custom performance automotive parts for low production manufacturing
- Consult with different car enthusiasts to learn part requirements and common issues
- Conduct failure analysis on factory parts or competitor designs (if available) using hand calculations, FEA, and engineering judgment
- Dimensional part data obtained with common reverse engineering practices

T-Mobile Senior Design Project (University Project)   Sept. 2018 – June 2019
- Designed, built, and tested a robot that automated T-Mobile's drop testing tower
- Specific roles included SolidWorks design and modeling around test tower assembly, designing the pneumatics, coding positions for 4 axis robotic arm, part selection, machining custom components, and final assembly of robot
- Worked with an interdisciplinary team full of electrical and computer engineers

Various Skills and Software

- **Software:** 3D Modeling (SolidWorks, Fusion 360. Familiar with Siemens NX11, Creo and CATIA) Programming Languages (Python, MATLAB, VBA, C)
- **Hardware:** FDM 3-D printers, Rasberry Pi, Aurduino, Electronic compoenents testing (batteries, AC and DC motors, controllers)
- **Fabrication:** TIG Welding (Aluminium and Stainless), MIG Welding (Steel), Lathe, Mill
- **Precision Measuring:** Coordinate measuring machine (CMM), Optical comparartor, Vision system, Micrometers, Height gauge, Bore gauge, Calipers
- **Automotive:** Mechanic for over 3 years, build my personal car for fun.

Education, Research, and Internships

Bachelor of Science in Mechanical Engineering   Sept. 2015 – June 2019
Seattle University, Seattle, WA
GPA: 3.499/4.0

Student Researcher   June 2017 – Nov 2017
Microalgae Processing, Seattle University, PACCAR Research
- Modeled, 3-D printed, and built two watertight reactors
- Designed, assembled, and tested a low energy mixing system
- Created testing procedures and data collection methodology
- Created macros on VBA that sorts thousands of data points to speed up productivity

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Fluids Design Engineering Intern   June 2018– Sept. 2018

King County's Wastewater Treatment Center, Seattle, WA

- Designed, planned, and constructed reports regarding two large system modifications at the plant (includes pipe layout, pump and heat exchanger selection, flow control methodology, and cost estimate)
- Communicated with various engineers and mechanics regarding their concerns for previous failed attempts or alternative ideas regarding these system modifications

Intern/Technician   June 2017 – Sept. 2017

MC Electric Vehicles, Seattle, WA

- Diagnosed and replaced electric vehicle's controllers, chargers, batteries, brakes, and suspension parts

Mechanic   June 2016 – Sept. 2016

Alaska Specialty Equipment, Anchorage, AK

- Repaired Honda and Stihl equipment, which includes diagnostics, engine and transmission swaps, engine rebuilds, and basic maintenance
- Welded and fabricated custom hunting trucks

Mechanic and Front Office Clerk   May 2015 – Sept. 2015

Alaska Professional Auto, Anchorage, AK

- Received owner's responsibilities when absent for a month
- Big repairs including engine and transmission swaps, timing belt and chain services, turbo replacement, and electrical diagnostics