2703 Clubhouse Drive

Plant City, Florida 33566

Nguyen42@mail.usf.edu

7/30/2019

Dear Hiring Committee,

I am currently a senior at University of South Florida pursuing a degree in Mechanical Engineering and specialize in automotive engineering. I have an AA Degree from Hillsborough Community College from Tampa, Florida. I am applying for the mechanical engineering internship specifically Vehicle Research or Manufacturing.

During my senior year of high school, I was part of the Electrathon club which built electric cars from scratch and raced them throughout the county. My job was to configure the brakes and steering to control while turning. After school I became a mechanic for 4 years. I have experience with diagnosing issues and performing maintenance on cars at a fast pace environment. At Brandon Honda, we completed an average of over 3000 repair orders per month as a team. Aside from being hands on with the cars, I provide detailed explanations for the advisors and customers concerning their issues in a timely manner. As for a part time student working as a mechanic, I was able to provide practical experience on trial and error, perfecting what works best for my job. Along with automotive skills, I also took up carpentry during high school. With this skill I can read blueprints and build small models/prototypes and with the help of CAD, I can apply them to 3D software's like SolidWorks. During my time at University of South Florida, I have done a few project showcasing my skill in SolidWorks simulation and programing. For my Capstone project, I made an automated barbell assist which allows the user to control the machine, when struggling, while working out. The project consists of proximity sensors to detect the barbell leaving the rack, which allows the arms to go down. Once finished or in need of assistance, a button is pressed at the feet to allow the arms to go up and release stress from failure using a winch. All these controls were set up through Arduino.

I hope to speak to you about this position soon. If any additional information is needed, please contact me at (813)385-7310 or email me at nguyen42@mail.usf.edu. Thank you for your time and consideration and I hope to meet you soon.

Sincerely,

David Nguyen

David Nguyen

Phone: 813-385-7310

Address: 2703 Clubhouse drive, Plant City, FL 33566

Email: Nguyen42@mail.usf.edu

EDUCATION

Hillsborough Community College   Tampa, FL

Associates in Liberal Arts   2012-2015

University of South Florida   Tampa, FL

Bachelor of Science in Mechanical Engineering   Expected December 2019

EXPERIENCE

Brandon Honda   Tampa, FL

Automotive Technician   **09/2013-10/2017**

- Contributed in a fast paced work environment servicing more than 3,000 repairs per month
- Diagnose and repair all vehicle automotive systems such as engine, transmission, braking, AC systems, etc.
- Performed detailed Pre-Delivery Inspections on new and used cars
- Worked closely with advisors to relay solutions regarding customer's concerns

SKILLS

- Computer Aid design (CAD)- certified in SolidWorks Simulation CSWP-S
    - Certification ID: C-6Z9HN43BGT
- Programing: MATLAB, knowledgeable in using Arduino
- Experience in carpentry
- Knowledgeable in reading automotive electronic schematics
- Microsoft office: Excel, Word, PowerPoint
- Experience with LEAN Six Sigma

KEY PROJECTS

Senior Capstone design   March 2019

Automated Barbell Assist Rack

- Our team of 7 was responsible for designing a device to assist the user when he/she needs help with lifting weight in a tight situation. I was responsible for the controls/programming portion using Arduino. Our team was successful at creating a prototype that allowed the user to use a button operated switch at your feet to activate the motor to allow the weight to return to its original position.

Extracurricular Activities

- American Society of Mechanical Engineers   August 2015- Present
- USF Society of Automotive Engineers   August 2017- Present
- VEYM (Vietnamese Eucharistic Youth Movement)   September 2008- Present