Qiyu An

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I always like physics so I chose Mechanical Engineering wanted to apply physics in real life. While pursuing the degree, I learned how to appreciate the beauty of math. Besides studying hard at school, I wanted to open my eyes and mind by exploring different engineering clubs (ChemE, EE, ME, CS) and by going to different company tours. Both of them played an important key in shaping the person who I am today.

The best way to show you who I am is to show you my thinking process through problems or real life situations. I tried to work at a restaurant, because if I am not working as an engineer, I would rather do something that allows me to continue learning at the job. Besides what i can learn on a job, I will always try to learn new skills at my free time at home.

Working at restaurant was my best option at the time before I can get an engineering job because I can talk to the customers and learn the experience from their life. But I could not even find a job wash dishes at restaurants. So I took this weird door to door advertising job for Kirby, because I can still talk to a lot of people at the doors.

I **enjoy** coming up with different ideas and **analyzing data** to **solve problems**. **Facing challenges** is my way **to improve myself** to be a better person and engineer. I **like to get to know different people** and learn from their story and experience. I **value teamwork** the most through all my school projects because one can learn anything on the Internet but not people skill. My great learning abilities allow me to **enjoy what I learned from school and my personal projects**. In my **spare time**, I **like learning SolidWorks, AutoCAD, Arduino and programing**.

Thank you very much for the opportunity and the time spent reviewing my application!

Sincerely

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Education (Robotics and Automation Emphasis)

University of Nevada Reno Mechanical Engineering (GPA:3.2) Graduation Date: May 2016
Statics, Circuits, Material, Mech. of solids(Shear, Torque...), Dynamics, Fluids, ThermoDynamics, Numerical Method(Matlab Calculations), Heat Transfer, Mechanical analysis & Design, Systems & Controls, Robotics, Instrumentation, Intermediate Dynamics(3D movements), Aerodynamics, Drones(Sensors & Navigations)

Skills

Arduino(C/C++) •SolidWorks •Web development (node.js, JavaScript, HTML, CSS/Sass, grunt, compass and basic SEO, MongoDB and google analytics products) •MatLab •AutoCAD •LabVIEW •Excel •Basic Bootstrap and GitHub •Basic Machining •Basic Raspberry Pi (Linux/Python) •3D printing

Work Experience

UNR Knowledge Center (library) Aug 2012-May 2014
- customer service to students, faculty, and community users at the Library Services Desk.

IBM (Poughkeepsie, New York) June-Aug 2015
- Summer Engineering intern: Designed a tracking device in Arduino platform (sensors: GPS, IMU, Humidity&Temperature etc.) Track locations and time of events such as tilt and roll overs.

DRI (Desert Research Institute) Sep 2015-April 2016
- Engineering intern: Designed an air quality testing device with Raspberry pi and Arduino platform (Test CO2, SO2, CO, NO2, NO etc.)
- Kirby (sale vacuum from door to door) March 2017-May
- SSR (system service and robotics) teach robot perform accurate/fast automation May - Present

Team Projects from School

Capstone: Designed and built a solar panel cleaner using Arduino (A lot of machining). A quick demo at https://www.youtube.com/watch?v=Ne5S9cAorKk
Hovercraft(fuel cell, relay, NXT and sensors): In charge of calculation, building and designing.
Bicycle Helmet Design: Brainstormed and tested different material options.
White Cane Redesign: Improved original cane based on feedback from a visually impaired person.
Lego Robot(implemented sound, light, distance and magnetic sensors): racing car and mine-searching car.
Balsa wood bridge: 0.45 lbs. bridge made from balsa wood that held 600 lbs. (good weight strength ratio)
Small LabVIEW projects: Built a calculators and small games.
Excel calculator: Built a calculator in Excel.

Personal projects in spire time

SolidWorks and AutoCad projects: many parts were made to sharpen my skills and 3D printed some.
C++ games: Made simple games, such as head tail game, to familiar myself with the language.
Simple coding projects: practiced with C++, node.js with Arduino, Raspberry Pi and web development.

Websites: Front end https://louisanresume.herokuapp.com For back end development (SMS/Databases): https://laundrytake.herokuapp.com I modify this site a lot so if it's down please try https://laundrytakebackup.herokuapp.com

Activities (Through STEM club on campus)

- Volunteered at K12 outreach program: taught kids to use basic C# through gaming environment
- Volunteered and judged for FIRST Lego League (FLL) and *FIRST Tech Challenge (*FTC*)*

Capstone project

Solar panel cleaning device