***Qiyu An***

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May 31, 2016

Hamilton

4970 Energy Way

Reno, NV.

To Hamilton Human Resource:

I found this Mechanical Engineering job offer from indeed career website. I just graduated with aMechanical Engineering (**ME**) degreeat University of Nevada Reno (**UNR**). Hamilton is a familiar company to me since it has a very close relationship with UNR. I have known Hamilton from UNR career fair and dinner with industries. I have always been interested in the company because i **like autonomous machines and robotics**. My **best skill that matches the job description is data acquisition. I had some experience in that field and i found myself enjoy it a lot.** I hope Hamilton is a place where values people like me who possess **systematic problem solving skills, personable attitude** and **the enthusiasm of** **learning** skills related or unrelated to my major**.**

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 papple 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 and programing**. I was also an **active student**. I like to go to company tours and different events on campus, to **explore** both my views of **engineering and life**.

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

Sincerely

Qiyu An

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**Education**

University of Nevada Reno Mechanical Engineering (Senior) Graduation Date: May. 2016

**Skills**

Arduino(C/C++) •SolidWorks •Web development (node, JavaScript, HTML, CSS) •MatLab •AutoCAD •Basic Machining •Basic Raspberry Pi(Linux/Python) •LabView •Excel •Mathcad •Worked on projects in grunt, sass and compass •Basic C++ •Briefly used Boostrap, GitHub

**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.

DRI (Desert Research Institute) Sep 2015-April 2016

* Engineering intern: Designing air quality testing device with Raspberry pi and Arduino platform.

**Team Projects from School /personal projects**

**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)

**C++ games**: Made simple games, such as head tail game, to familiar myself with the language

**Simple coding projects**: Basic coding practice with C++, Linux and Python with Arduino and Raspberry Pi

**Website**: Made a website following a tutorial and continuing to learn and make more personal websites. Check a website i made here: <https://louisanresume.herokuapp.com>

**Capstone**: Designed and built a solar panel cleaner using Arduino. More details at UNR ME capstone project 2016 and a demo at <https://www.youtube.com/watch?v=Ne5S9cAorKk>

**Activities**

* Building website, 3D prints parts made from CAD and just started making a drone and.
* 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*)*
* Member of The National Society of Leadership and Success: leaded group meetings, attended speaker event
* Member of STEM Club, an engineering club that helps with engineering competitions for high school level

# CapStone project

Solar panel cleaning device





