Ariel M. Gupta 1690 Springhill Dr., Reno, NV 89523 575-405-9670 amgupta4@asu.edu

OBJECTIVE

To secure a position applying and expanding my data wrangling skills to develop a superior analytic stack for modern B2B data processing.

EDUCATION

Arizona State University (Polytechnic Campus) **Aug 2014 – Dec 2017**

Engineering (Electrical Systems), BSE Degree in progress
Barrett, The Honors College
4.13 Cumulative GPA (Dean's List)
Senior Academic Standing, 136 Credit Hours Completed

TECHNICAL SKILLS

Design Tools: SolidWorks, CorelDRAW Suite, ShopBot
Shop Tools: Laser Cutter, Vinyl Cutter, Bandsaw, Soldering Station including SMD, Drill Press, Table Saw
Programming: Python, C, LabVIEW
Applications: MATLAB, MS Office Suite, MS Project, Inkscape, GIMP 2.8, GitHub

WORK EXPERIENCE

Nevada Nano Engineering Intern, Reno, NV **May 2016 – Aug 2016**

- MEMS Hotplate Design: Developed MATLAB script that generated coordinates of spiral hotplates based on parameters specified by design team.
- Sensor Data Visualization: Developed MATLAB script for processing chemical sensor test data into chemometric benchmarks and graphical visualizations of environmental and analyte effects on sensor outputs.
- Vapor Generation of Organic Solvents: Designed and characterized system to test gaseous forms of heavy flammable organic solvents. Results of tests were analyzed using custom MATLAB script and results were presented to sensor testing team lead.

Student-Tutor, Phoenix, AZ **June 2015 – Present**

- Provide subject and SAT tutoring for middle through high school students

Arizona State University Subject Area Tutor, Mesa, AZ **Mar 2016 – Dec 2016**

- Provide tutoring for undergraduate level coursework in mathematics, physics, statistics, and programming.

RECENT ASU ENGINEERING

Escape the Room Puzzle **Aug 2016 – Dec 2016**

- Designed custom PCB interfacing PSoC Bluetooth Module with Phone, Buttons, LEDs, Solenoids, and Power.
- Programmed PSoC Bluetooth Module to recognize arrays of short and long button presses, and bluetooth inputs from phone.
- Directed team to interface microcontroller system with analog circuit, and mechanical system for cohesive puzzle-solving experience for users.

Maze and Translation Robotics **Feb 2015 – Mar 2015**

- Constructed and programmed robot to escape maze

AWARDS

ASU, Gammage Scholar **Aug 2014 – Present**
National Merit Scholar **May 2014**
Bill Taylor – Maria Brook Mathematics Scholarship **May 2014**
Reno High School Triple A Academic Scholarship **May 2014**
USNCO, 1st Place Chemistry Olympiad Sierra-Nevada Chapter **Mar 2013**