Mohammad Kamil Azim

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EDUCATION:

- **Oregon State University, Corvallis, OR -** Expected Graduation June 2021.
  Bachelor of Science in **Electrical & Computer Engineering -** GPA: 3.14/4.0
  Minor in **Computer Science -** GPA: 3.23/4.0
  Relevant Courses: Electrical Fundamentals, Signals & System, Electronics, Transmission Lines, Data Structures, Operating Systems, CMOS & Integrated Circuits, Electric & Magnetic Fields, Electronic Materials & Devices, Junior Design, Computer Networks, Digital & Logic Design,Computer Organization & Assembly language, Technical Writing, Senior Design & Semiconductors.
- **Recipient of 2 scholarships for academic excellence. (International Student Continuation & Hoffman Opportunity)**

SKILLS:

- **Programming languages:** C, C++, System Verilog, Bash, AVR assembly, Python, MATLAB & LaTex.
- **Tools:** Oscilloscopes, electronic loads, function generators, benchtop power supplies, soldering iron, SMT Oven, DMM, Microcontrollers, FPGAs & heat gun.
- **Softwares:** Eagle, KI-CAD, Fusion 360, Solid works, Active Directory, Microsoft Office, Exchange Management, LTspice, ModelSim, Cadence, PowerShell, Duo, Silvaco's ATLAS & HSPICE.
- **Personal Traits:** Strong verbal & written communication skills, organized, adaptable, effective analytical & problem solving skills, thrive for continuous improvement and calm under pressure.

EXPERIENCE:

Student Technician, Oregon State University, Corvallis, OR - *June 2019-Present*

- As part of OSUs Information & client services department, I provide technical support via phone, email & walk-in.
- Support over 100k customers: students, staff, faculty, emeritus faculty, courtesy faculty, associates & adjuncts.
- Tasks include troubleshooting software & hardware issues with OSU affiliated or personal systems.
- Guiding new students & employees with OSUs online tools & securing their accounts with Duo authentication.
- Have Level 4 security Awareness Certification through Criminal Justice Information Services Security Awareness Training.
- Configure builds for new or current employees/departments consisting of Windows, Mac & Linux based systems.
- Part of the team that assisted OSU faculty and students in the transition to remote working/learning.

Academic Coach, Oregon State University, Corvallis, OR - *October 2017-July 2019*

- Coached students into improving academically with tools & ideas for note taking, stress & time management.
- Informed students about the vast University resources for academic & personal needs.
- Assisted students from undergrad to PHD level, to overcome personal conflicts & directed them to the proper aid facilities.
- Helped international students understand & clarify essential facts that are lost or misinterpreted in translation.

PROJECTS:

Power Supply assembly & testing

- Assembled a power supply with SMT parts, testing the input and output of its 5v & 3.3v channels.
- Analysing data such as its nominal current, peak to peak voltage & current input.
- Tested the power supply utilizing an oscilloscope, variable electronic load & bench top power supply.

Mini Sumo Robot

- Designed and built a regulation sized 10cm by 10cm autonomous mini-sumo robot.
- Programmed an Arduino microcontroller in Embedded C with ultrasonic and IR sensors for obstacle avoidance.
- Used MIT app inventor to create an application to display values such as distance, RPM and battery level via bluetooth.
- Designed an enclosure with CNC cut & 3D printed parts using SolidWorks.

Solar panel characterization

- Characterizing a solar cell as a non-linear device by powering a cell within a controlled environment.
- Output data such as current and voltage using an ATmega 328 microcontroller.
- Used the data to plot a power curve onto MATLAB to prove the cells characteristics.