ALHUSSEIN AL-JAWAD
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A hardworking recent graduate and winner of multiple university programs and scholarships. A persistent problem solver with excellent researching skills and multiple hands-on experiences in different engineering areas. A critical thinker who is detail-oriented in presenting solutions and professional reports while keeping his enthusiasm to understand new concepts.

EDUCATION

Great Bay Community College   **Portsmouth, NH**
A.S: Engineering Science   **Fall 2018**

University of New Hampshire   **Durham, NH**
B.S: Electrical Engineering   **Expected: Fall 2021**
Relevant Coursework: Electric Circuits, Engineering Analysis, Signals and Systems I & II, Electronic Design I, Electromagnetic Fields and Waves I, Random Processes and Signals, Computer Organization, Introduction to Digital Systems, Introduction to Python, Introduction to Java Programming, Calculus I & II, Differential Equations, Finite Mathematics, Introduction to Linear Algebra, Linear Algebra for Applications, University Physics I & II, Electronic Design II, Junior Lab I, Fundamentals of Communication Systems, Digital Signal Processing, Junior Lab II, Biomedical Instrumentation, Senior Project I & II, Internet of Smart Things.

EXPERIENCE AND TECHNICAL SKILLS

Software: Ansys HFSS, Ansys Mechanical, MATLAB, Multisim, Python, Java, MS Office
Test Equipment Experience: Oscilloscopes, Multimeter, Power Supply, Software Defined Radios
- 1 year experience in EMC, EMI, ESD with CISPR, and DO-160
- 1-year experience for ASIC and CPU
- 1-year experience in designing and implementing analog and digital mixed circuit boards for medical equipment applications that involved testing, qualification, troubleshooting, layout and grounding
- Strong understanding for computers
- Strong skills in C, Python, and Matlab
- Add 1-year experience I2C and SPI design and troubleshooting for board-to-board communications

WORK EXPERIENCE

KainosTech/Josstec   **Portsomouth, NH**
Technician   **March 2021-Current**
- Fixed and repaired Apple computers of different malfunctions by working with logic boards of complex logic and various hardware components.
- Tested and repaired computer parts to be sold through KainosTech channels.
- Managed the business of KainosTech and Josstec through communicating with different corporations and customers to ensure a smooth flow of business.

University of New Hampshire   **Durham, NH**
Entrepreneur   **June 2020-August 2020**
- Presented a startup idea that would ease parking problems encountered in university campuses and densely populated cities.
- Showed different skills that demonstrated the multiple aspects of creating a startup, e.g., business model generation, competitive analysis, addressable markets, market segmentation, market share, cost structure, customer segmentation, and so forth.
- Gathered connections through interviews with different universities' transportation sectors and potential customers.

University of New Hampshire   **Durham, NH**
Research Assistant   **March 2019-June 2020**
- Worked with TRITON Pipe Fusion, a device that uses electromagnetic radiofrequency waves for welding plastic pipes.
- Used Ansys HFSS to design shapes, assign parameters, analyze electric and magnetic fields, and assign meshing and s-parameters needed to solve the complex geometries involved.
- Acquired data using thermal cameras and thermocouples to understand the heat distribution inside the welding process. These data acquisitions also helped gain model parameters that improved the agreement between the model and the real-time experiments.
- Suggested experiment procedures that helped in the verification of acquired data.
- Created an Access database that efficiently organized the data from modeled and real-time experiments conducted throughout the research period.

University of Melbourne Apprenticeship   **Melbourne, Australia**
Apprentice   **December 2019-January 2020**
- Worked with a supervisor on a 3-week program to analyze optical fibers and investigate their applications.
- Investigated the concepts of signal dispersion, attenuation, modulation, and operating windows of optical fibers.
- Produced a MATLAB code that investigates signal dispersion in optical fibers based on experimental parameters.

Great Bay Community College   **Portsomouth, NH**
Tutor   **August 2018-January 2019**

- Used different teaching techniques to work with students and people with needs to help them understand complex concepts and motivate them to keep up with their coursework.
- Tutored General Chemistry I & II, Precalculus, Calculus I, and Algebra.
- Three hours away from becoming a certified tutor.