

JASSIM ABDUL GAFOOR

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Education

Bachelor of Applied Science in Integrated Engineering
(Major in Electrical Engineering, Minor in Computer Engineering)

Expected Graduation April 2021

University of British Columbia

Vancouver, BC

Work Experience

Co-op Student | TELUS – Vancouver, British Columbia

July 2019 – April 2020

- Created a Confluence library housing over 3000 documents for easy access
- Trained engineers and technicians how to navigate the library effectively
- Developed a search functionality based on users' feedback and inputs
- Migrated documents and performed quality control checks
- Leveraged existing tools and built usage reports to help maintain library

Management Intern | Global Auto Parts (Distributors) W.L.L – Doha, Qatar

July 2015 - August 2015

- Created macros to manage Excel files and reduced data processing times by 1 hr/day
- Monitored delivery system of 200+ orders a day to clients and garages in industrial warehouses and ensured sales quotas were met
- Wrote reports on possible improvements and action items which were submitted to coordinator

Mechanic | Auto Z Garage – Doha, Qatar

August 2015

- Service vehicles, performed routine maintenance and checks on various components
- Learned how to operate machinery such as wheel alignment system, automotive lifts, impact wrenches and hydraulic shop crane
- Collaborated effectively with 20+ mechanics from diverse backgrounds

Technical Skills

- **Programming:** Assembly, C++, Python, SystemVerilog HDL
- **Computer Software:** MATLAB, Solidworks, Adobe Photoshop, Circuit Modelling Tools, Confluence

Projects

Exoskeleton Project | UBC

September 2018 – April 2019

- Designed an exoskeleton prototype to help children with spinal muscular atrophy
- Implemented pulse-width control and power management systems to achieve a natural walking gait
- Collaborated with a 6-person team and designed electrical systems to control actuators

Simple iPod | UBC

January 2019 – February 2019

- Practiced System Verilog skills to generate hardware to read from flash memory using a Field Programmable Gate Array
- Interfaced with embedded processors and hardware logic to implement Finite State Machines
- Implemented code in a modular and systematic fashion to be reused for further applications

MEMS Gyroscope Project | UBC**September 2018 – December 2018**

- Designed and implemented a Micro-Electro-Mechanical Systems Gyroscope
- Generated mask layouts with Clewin for design to be fabricated at a silicon foundry
- Tested gyroscope utilizing Finite Element Analysis on Autodesk Inventor
- Reiterated mechanical designs using Solidworks CAD to achieve maximum sensitivity and resilience
- Modelled energy and information flow diagrams for gyroscope using Simulink and Simscape

Design Teams

Safety Officer | UBC Thunderbikes**May 2018 – April 2019**

- Building electric motorcycle to participate in E-moto competition 2020
- Leading recruitment and outreach process for expanding design team
- Managing website using Wordpress and JavaScript to improve user experience

Landing Gear Sub-Team Member | UBC Aerodesign**October 2016 - April 2017**

- Integrated with a team of 4 to build landing gear of the airplane
- Designed a new suspension system to support larger freight of new plane
- Constructed a test-rig to simulate landing scenarios in low risk
- Placed 3rd in SAE competition 2017

Extracurricular Activities

Marketing Executive | UBC EPIC**November 2017 – April 2018**

- Designed posters and banners using Photoshop for promotional club events
- Constructed personalized design projects for clients
- Organized marketing events for club members and public showcases
- Fundraised for club activities by selling hand-made merchandise and cards

Robotics | Doha College Robotics**November 2011 - January 2016**

- Built and programmed robots to compete in various competitions
- Winner of National Robot Olympiad 2012 – Qatar and 2nd place in Botball 2014 – Qatar
- Led teams of 3 – 10 students and successfully performed at competitions