

Jassim Abdul Gafoor

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Experience

Proprietor/Business Owner

JGA4 Consultancy

Coimbatore, India

September 2025 - Present

- Providing high output project management services and engineering professional expertise as required
- Managing all business responsibilities including invoicing, sales, tax compliance

Project Co-ordinator II

Food Process Solutions

Vancouver, BC

July 2023 - July 2025

- Managed over 20+ high-value industrial equipment projects (USD 50 million+), Maintained and delivered on scope, budget, schedule while focusing on excellent client relationship
- Implemented python scripts using software APIs, leading to workflow and process optimizations reducing administrative manhours by 90%
- Collaborated with 10+ colleagues to implement new installation safety program and procedures. Developed training materials for over 200 on-site resources and ensured compliance with new safety procedures
- Produce technical specifications, plans, procedures and other design documentation as required

Robotics and Coding Instructor

Sparks Academy

Vancouver, BC

February 2023 - June 2023

- Delivered engaging coding, robotics, and STEAM lessons to over 15 K-7 students in weekly classes and camps.
- Designed and implemented 10+ STEAM-based projects that improved student participation and creativity.
- Led the development of a new makerspace, increasing hands-on learning opportunities by 40%.
- Created custom curriculum content, resulting in a 25% increase in student retention across sessions.

Jr. Mechanical Engineer

Prema Precision Technology

Doha, Qatar and Coimbatore, India

June 2021 - July 2022

- Designed and develop mechanical systems and components using SolidWorks as per client requirements
- Prepare technical drawings for CNC Vertical Turning and Milling Machines ensuring high quality and yield
- Assisted with management of ERP, cost accounting and tax compliance monthly

Telecommunication Engineer (Co-op Work Placement)

TELUS

Vancouver, BC

July 2019 - April 2020

- Migrated data from Sharepoint to Atlassian Confluence and reviewed over 3000 engineering standards
- Ensured compliance with telecom standards and conducted routine audits for system integrity and adherence
- Utilized dormant enterprise bridge software and automated transfer of item catalogs into Confluence

Education

University of British Columbia

Bachelor of Applied Science in Integrated Engineering (Washington Accord)

Vancouver, BC

Graduated in 2021

Relevant coursework: Control Systems, Mechatronics, Engineering Design Projects

Doha College

High School Robotics, Edexcel Outstanding Achievement Award

Doha, Qatar

Graduated in 2016

A-Levels: Mathematics, Further Mathematics, Physics, Chemistry, Design Technology

Certifications

Applied Data Science Program (MIT Professional Education)

January 2023 - April 2023

- Built Facial Emotion Detection Model as Capstone Project - Achieved 92% accuracy

Certified Associate in Project Management

Expected Completion December 2025

- Project Management Institute

Engineer-In-Training (Engineers and Geoscientists British Columbia) Registration Expired in 2022

Additional

Language Skills: English (Native), Tamil (Intermediate), French (Beginner)

Technical Skills: Python, 3D modelling, Data Viz

Interests/Hobbies: Volleyball, Indoor Climbing (Bouldering), Sketching, 3D-printing

Relevant Projects

Smart Skin Body Tracking Project (UBC IGEN 430)

August 2020 - June 2022

- Designed sensor-housing modules using CAD to house UWB sensors development boards
- Used Python scripting and MATLAB to log data from sensors for tracking
- Developed the prototype further as part of the APSC Summer Entrepreneurship program with UBC
- Secured 8000 CAD in funding with Entrepreneurship program at Qatar Business Incubation Center

3 Input NAND Cadence Layout (UBC ELEC 402)

October 2020 - November 2020

- Designed 3-input NAND gate layout using Cadence Virtuoso with a 45nm CMOS technology node.
- Created schematic and symbol views in Cadence and verified logical correctness through simulation.
- Performed DRC (Design Rule Check) and LVS (Layout vs Schematic) verification to ensure manufacturability
- Analyzed parasitic capacitance and resistance through post-layout extraction for delay and power estimation.

UBC Thunderbikes (Safety Officer & Founding Member)

May 2018 - September 2019

- Founded UBC ThunderBikes, a student engineering team focused on building electric motorcycles for the Formula Lightning competition.
- Oversaw safety protocols and conducted tool training for over 20 team members.
- Converted standard bicycles to electric-powered prototypes.
- Supported high-profile electric prototype project with direct engagement from UBC leadership.
- Led recruitment efforts and interviewed 15+ candidates to expand the multidisciplinary team.

FPGA Simple iPod (UBC ELEC 402)

January 2019 - February 2019

- Designed hardware using SystemVerilog and FPGA to read from flash memory.
- Implemented FSMs and modular reusable code.
- Practiced SystemVerilog, C, Git and remote lab work skills

Exoskeleton Project (UBC IGEN 330)

September 2018 - April 2019

- Designed and prototyped a lower-limb exoskeleton to assist children with Spinal Muscular Atrophy (SMA).
- Implemented pulse-width modulation (PWM) control to actuators to replicate natural gait movement.
- Developed embedded control systems using microcontrollers and motor drivers for joint actuation.
- Conducted kinematic and biomechanical analysis to refine range of motion and joint flexibility.
- Led electrical system design and collaborated with a 6-member interdisciplinary team for system integration.

MEMS Gyroscope Project (UBC ELEC 455)

September 2018 - December 2018

- Designed a Micro Electro-Mechanical Gyroscope (0.2mm x 0.2mm) (Solidworks)
- Completed Schematic capture (Cadence) to ensure design sensing requirements were being met
- Modelled electrical to mechanical domain coupling (Simscape and Simulink) before fabrication
- Generated fabrication mask layouts (Clewint) for manufacturing using the SOI-MUMPS process

Phone Heater Case (UBC IGEN 230)

September 2017 - April 2018

- Engineered a thermally insulated phone case to extend smartphone battery life in sub-zero temperatures.
- Integrated a low-power heating element and temperature sensors controlled by a microcontroller for automated thermal regulation.
- Conducted thermal testing across varying ambient conditions to validate performance and efficiency.
- Created enclosure prototypes using 3D modeling tools and fabricated using rapid prototyping techniques.

UBC AeroDesign (Landing Gear Sub-Team)

October 2016 - April 2017

- Collaborated in a 4-person team to design and fabricate the landing gear for a competition-grade aircraft.
- Engineered a new suspension system to accommodate increased payload capacity of a redesigned airframe.
- Built a custom test rig to simulate landing impacts and validate durability under low-risk conditions.
- Achieved 3rd place overall in the SAE Aero Design 2020 competition..