Dabeer Ahmad Abdul Azeez

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SUMMARY OF QUALIFICATIONS

- Proven leader & project manager with 3+ years experience driving milestone-based end-to-end delivery across 5+ cross-functional teams of up to 12 by actively managing Waterfall-style project timelines, resolving conflicts, and keeping contributors aligned around shifting priorities using MS Project, Notion, and Gantt charts
- Exceptional communicator blending 9+ years of live performance, facilitation with executive-level presentations (up to CTO), strategic networking, sponsorship engagement, resulting in 400%+ funding growth
- Accomplished technical writer and self-published author, contributor to 2 academic papers, A+ essays/reports for 10+ undergrad courses, and 250+ pages of technical/onboarding/teaching materials used by 5+ teams
- Client-focused business analyst with 3+ years of client-facing, consulting-style experience diagnosing ambiguous problems, eliciting requirements through 20+ stakeholder interviews, performing fit–gap analysis, and translating business objectives into scalable SaaS, process, and technology solutions reaching 85,000+ users
- Software & automation developer with 6+ years Python & 4+ years MATLAB experience building professional automations, data analysis scripts, REST API integrations, data pipelines, desktop/web GUIs, unit testing (PyTest), Git-based workflows, code reviews, and user-focused interface design across >10 academic and industry projects
- Embedded & electrical systems designer with 4 years hands-on experience designing and debugging analog/digital circuits using professional lab equipment, reading and producing electrical schematics, running circuit simulations, and troubleshooting hardware–software interfaces; earned A+ grades across 6+ undergrad circuit design projects

WORK EXPERIENCE

McMaster iBioMed – Hamilton, ON, Canada — Sep 2020 — Apr 2021, Sep 2023 — Apr 2025
Laboratory Teaching Assistant

- Promoted to Instructional Teaching Assistant, in charge of supervising 45 students and 2 support assistants on a weekly basis during labs, delivering >100 hrs of content for Python programming and CAD (Autodesk Inventor)
- Reduced manual grading effort by 50% by writing Pytest unit tests to grade 500+ Python assignment submissions yearly
- Expanded the instructional TA (ITA) pipeline by mentoring 4 support TAs to lead lab sessions, addressing TA shortages by successfully motivating them to pursue ITA roles afterwards
- Accelerated onboarding for new ITAs by authoring a concise teaching guide documenting effective explanation and engagement strategies

L3Harris WESCAM – Waterdown, ON, Canada — May 2022 – Aug 2023
Electro-Optical Engineering Intern (Co-Op)

- Saved 40+ engineer hours per week across a 10+ person team by spearheading MATLAB tools and GUIs that automated image processing, data analysis, device operation, and report generation
- Streamlined camera line-of-sight jitter vibration testing by 10% through improvements to the in-house MATLAB/C++ GUI, collecting sensor data used in engineering evaluations of block camera electronic image stabilization systems
- Maintained 0 safety or equipment incidents while operating $100K+ sensor, video, vibration, and thermal systems by following strict ESD and defense-grade procedures
- Completed overdue calibration for 15 electro-optical devices—some delayed by multiple years—by coordinating suppliers and engineers to optimize shipment timing and tracking calibration data in Excel.
- Trained 2 new interns to independence in weeks, creating 20+ pages of documentation and delegating tasks across 6+ projects to ensure continued project success

McMaster Health Sciences – Hamilton, ON, Canada — Sep 2021 – Apr 2022
Anatomy Teaching Assistant

- Enabled effective hands-on anatomy learning for 30–40 students per session by leading guided dissections and answering real-time questions during complex lab activities
- Maintained 0 safety incidents across 7 lab sessions by enforcing anatomy lab safety protocols during dissections involving human specimens
- Improved exam preparedness for 100+ students by authoring ~40 practice questions and co-hosting end-of-semester review sessions with fellow TAs

McMaster Technology Services – Hamilton, ON, Canada — May 2021 – Aug 2021
Project Support Assistant (Junior Business Analyst Intern)

- Improved M365 tool adoption campus-wide by co-creating a SharePoint discovery site that aided 100s of private consultations, reached 16,000+ unique users, and gained 85,000+ views in 13 weeks, delivering targeted guidance for faculty, staff, and students
- Reduced Microsoft Teams course setup time by 95% (10 hrs to <10 min.) by developing a custom PowerShell automation to assign roles and private channels for a professor's course
- Influenced technology rollout decisions and informed leadership up to CTO by highlighting student experiences and challenges in 20+ staff meetings
- Delivered a zero-incident virtual conference experience for 250+ attendees by coordinating 10+ staff through Microsoft Lists while providing live Zoom production support for a regional CBIE event
- Shaped team-wide content and design guidelines by analyzing 150+ survey responses and conducting 15+ user interviews and environmental scans

Hoare Labs – Hamilton, ON, Canada Jun 2020 – Aug 2020
Undergraduate Research Assistant (Co-op)

- Co-authored a peer-reviewed publication in the *Journal of Hospital Infection* cited by ~10 groups, leading literature review and producing the graphical abstract for research on N95 respirator steam reprocessing
- Saved 100s of researcher hours annually for a team of 10–20 researchers by designing and building an online interactive JavaScript + Wix API database indexing 100+ lab papers and patents

YMCA – Mississauga, ON, Canada Sep 2017 – Aug 2019
Swim Instructor and Lifeguard

- Maintained zero major safety incidents by enforcing aquatic safety protocols and coordinating a 4-guard rotation for up to 50 patrons, including evacuations and minor first aid response
- Taught 100+ students aged 3–16 by adapting instruction methods to varied skill levels and classes of up to 18, improving engagement and skill progression
- Evaluated ~200 learners over two years by tracking progress through midterm reports and final assessments, ensuring accurate pass/fail certification
- Mentored 5+ new instructors and volunteers by providing teaching feedback and safety orientation, accelerating onboarding and instructional consistency

LEADERSHIP AND OTHER EXPERIENCE

McMaster Acappella – Hamilton, ON, Canada Sep 2023 – Apr 2025
Team Director

- Optimized weeks of practice time by streamlining deadlines and schedules via Excel Gantt charts and Microsoft Teams
- Led the ensemble through high-stakes auditions and competitions, including ICCA Regional Quarterfinals (2024–25) and Queen's A Cappella Competition (2023–24)
- Delivered the group's first ever public release on Spotify in 3 weeks by managing end-to-end production, including recording coordination between 12 members, post-production, and publishing
- Performed >25 songs at 6 performances including solo features for audiences of up to 350

McMaster Improv – Hamilton, ON, Canada May 2022 – Apr 2025
Co-President

- Drove >800% club growth and a ticket sales increase from $0 to $1400/yr by revolutionizing the club structure, leading 25+ practices per year, directing shows for 200+ attendees yearly, and managing a 5–8 person executive team
- Accelerated executive onboarding by 95% and ensured long-term club growth by building a Notion knowledge base with 100s of pages of timelines, executive guides, and resources used across multiple leadership transitions
- Fostered year-on-year performance development for 50+ club members by co-creating a 60+ page, two-level improv curriculum with a professional coach over 3 years
- Maintained a safe and inclusive club environment by professionally handling discrimination complaints in coordination with campus ombudsman and equity offices

Ontario Engineering Competition (OEC) – Hamilton, ON, Canada Sep 2024 – Jan 2025
Director of Sponsorships

- Raised approximately $75,000 in competition funding by conducting targeted company outreach, stepping in to cover the unexpected departure of a sponsorship director
- Reduced rulebook translation time by ~80% by translating a 100-page official competition rulebook into French using AI-assisted tools with manual review

McMaster Engineering Competition (MEC) – Hamilton, ON, Canada May 2024 – Nov 2024
VP Public Relations

- Raised $4,000 in sponsorships (400% of initial target) from 8+ companies (6 new this year) through cold emailing, LinkedIn networking, and in-person outreach at career fairs and at local businesses, recovering flawlessly from the unexpected departure of a major sponsor
- Secured $8,000 in additional faculty funding by co-delivering a sponsorship presentation with the VP Finance
- Enabled 400 participants (+33% from 2023) to compete, sending ~30 finalists to the Ontario competition (several placing in top ranks) by recruiting 25 judges and 8 volunteers from personal/academic/corporate contacts
- Achieved 0 major incidents and supported 10 simultaneous competitions by co-coordinating with VP Operations to redistribute tasks and oversee logistics in the Chair's absence
- Streamlined onboarding by authoring ~100 pages of documentation across 15 executive roles, standardizing processes and templates for seamless team succession

Volunteer – Hamilton, ON, Canada Jun 2023 – Jun 2023
FrancoFEST Volunteer

- Helped lead and collaborate with ~10 high-school volunteers to mount/dismount dozens of tents and clean dozens of garbage cans during the festival
- Communicated in English and French at the information booth to dozens of customers, volunteers, artists, partners, etc.

McMaster Improv – Hamilton, ON, Canada May 2020 – Dec 2021
Vice President Outreach

- Organized an online summit between 6 universities, garnering 40+ participants and growing club connections
- Led weekly 2-hour improv practices for groups of up to 20 with all skill levels

McMaster iBioMed – Hamilton, ON, Canada Sep 2020 – Dec 2021
Student Ambassador

- Edited and shipped ~5 one-hour podcast episodes in the debut year using Audacity; created editing SOPs and trained 2 successors to sustain production (Spotify link)
- Established the initial podcast editing workflow from scratch, introducing time-saving practices that streamlined production
- Engaged dozens of prospective students informally at recruitment events and 1:1, answering questions about the program and student life

EngHacks – Remote Jun 2021 – Jun 2021
Workshop Leader

- Delivered a 90-minute intro to web development (HTML/CSS/JS, Bootstrap) to 80+ attendees, enabling participants to ship a simple site by session end (YouTube link)

Stanford University: Code In Place – Remote Apr 2021 – May 2021
Section Leader

- Selected as a section leader for Stanford's *Code in Place* program, teaching Python fundamentals to 5 learners over 5 sessions using the official Stanford curriculum
- Guided students through exercises and assignments, improving problem-solving confidence in a remote learning environment
- Reviewed code submissions and provided targeted feedback on clarity and efficiency, reducing common errors and reinforcing best practices

McMaster Engineering Society – Hamilton, ON, Canada May 2020 – Apr 2021
IT Coordinator

- Administered the society's website backend for thousands of students and proposed improvements to email security and workflow efficiency

McMaster IT Student Committee – Hamilton, ON, Canada May 2020 – Apr 2021
Engineering Society Representative

- Designed a framework for developing students' digital skills, commended by Directory of IT Strategy & CTO
- Quoted on McMaster Daily News

StudentZ Network – Remote May 2020 – Jun 2020
Tutor (Physics, Calculus, English)

- Curated lesson plans for two students by attending to their specific strengths and weaknesses
- Delivered 4 hours of online tutoring sessions weekly

- Used Google Classroom for efficient and effective teaching and learning

McMaster Engineering – Hamilton, ON, Canada Nov 2019 – Apr 2020
Student Ambassador & Tour Guide

- Led families on 30 minute campus tours at recruitment events, engaging with dozens of prospective students

YMCA – Mississauga, ON, Canada Jun 2017 – Jun 2019
Assistant Swim Instructor

- Assisted regular swim instructors in teaching and supervising up to 12 children for 30 minute classes
- Taught older children independently under supervision
- Maintained safe pool environment by helping with setup and takedown for lessons
- Communicated with parents, participants, swim instructors, and deck supervisors to ensure safety and efficiency of swim lessons

PROJECTS

Automated Resume Management Pipeline Sep 2025 – Oct 2025

- Saved dozens of hours and ensured consistent formatting across multiple platforms by building a resume pipeline using Notion API, Python, Jinja2-generated LaTeX templates, Cursor, and GitHub Actions workflows, enabling seamless updates from Notion to live website in under 3 minutes

Cardiac Catheterization Testing Apparatus (Capstone Project) Sep 2024 – Apr 2025

- Delivered a cost-effective (10% cost of commercial device) ethical alternative to animal testing by designing and iterating a precisely tuned flow circuit for Boston Scientific cardiac catheter devices, saving weeks of inefficient wait times compared to traditional animal testing.
- Managed a 5-person team over 8 months using MS Project, coordinating tasks and timelines to consistent on-schedule project delivery and A+ success in the course
- Engineered a 1000x amplifier circuit for medical-grade pressure sensor data with <2% noise and implemented a PWM system via Arduino to simulate fixed and heartbeat pulsatile flow rates
- Accelerated testing efficiency by developing a MATLAB GUI front end for pump control and real-time data monitoring, improving usability and workflow for a team of 10 engineers

PID Temperature Controller Jan 2022 – Apr 2022

- Achieved accurate and rapid (<5 s settling time ±1%) temperature control of a thermoelectric cooler by developing and tuning a PID control algorithm, circuit, user interface over 4 months using C/MATLAB and an MSP430 microcontroller

Cerebral Palsy Gait Monitor Jan 2022 – Apr 2022

- Enabled objective pre- and post-operative gait comparison for cerebral palsy patients by designing a wireless gait monitoring system integrating FSR and IMU sensors into an instrumented sock
- Improved clinical usability by developing a real-time MATLAB GUI that visualized sagittal foot angle and plantar pressure distribution from Bluetooth sensor data

MATLAB Numerical Methods Visualizer Nov 2021 – Dec 2021

- Developed a MATLAB app using OOP principles and a GUI as a teaching tool for many numerical methods concepts learned in class

PCB Student Number Display Mar 2021 – Dec 2021

- Used k-mapping, boolean algebra, and sequential logic to design a circuit to display a looping student number on an 8-bit LED display
- Expanded past classroom expectations to a portable PCB design with 4 scrolling displays and memory storage

Ultrasonic Range Finder Circuit Nov 2021 – Dec 2021

- Used 555 timers, operational amplifiers, counters, and speakers to translate an ultrasonic time of flight to a distance on a 7-segment display
- Created circuit diagrams and a working model on MultiSim

Virtrolio - Yearbook Signing Web App Apr 2020 – Jun 2021

- Created Virtrolio, a live Angular/Firebase virtual yearbook web app which reached 350+ users
- Worked remotely with a team of 8, featured on Mississauga news website
- Developed a Python script to automate updating the site changelog

FEM Rocket Heat & Dynamics Model Mar 2021 – Apr 2021

- Used Python to automate an FEM solver and optimize input parameters
- Modelled real differential equations for solid-fuel rocket travel and heat flow

Research Publications Database Jun 2020 – Aug 2020

- Developed interactive online database of over 100 research papers and patents using asynchronous Javascript and Wix API

Baby Orientation Monitor Jan 2020 – Jun 2020

- Developed a multithreaded Python program for a Raspberry Pi to interpret orientation sensor data and display information to an interactive GUI

EDUCATION

McMaster University – Hamilton, ON, Canada Sep 2019 – Apr 2025
Engineering Physics (B.Eng., GPA 3.95/4.00)

Dean's List GPA (4 yrs); Co-op placement (1 yr); Provost Honour Roll (all A+, final year); >$10000 in scholarships for academic excellence

Relevant Coursework: *Biomedical Engineering Design Projects (I/II/III), Biomedical Signals & Systems, Embedded Microcontrollers, Data Structures / Algorithms, Numerical Methods for Engineering, Digital and Analog Circuits, Circuits with Non-Linear and Active Components, Statistical Analysis, Engineering Economics*

SKILLS & INTERESTS

Engineering	Programming & Scripting (Python, C/C++, MATLAB), Web Development (HTML, CSS, JavaScript, Angular, Firebase), Version Control (Git), PCB Design (EasyEDA), Circuit Analysis, Analog & Digital Electronics, Embedded Systems, Microcontrollers, Control Systems (PID, PWM), Signal Processing, Image Processing, GUI Development, Prototyping, Verification & Validation, Risk Analysis (FMEA), Technical Documentation
Business Analysis	Requirements Gathering, Stakeholder Interviews, User Interviews, Survey Analysis, Process Mapping, Data Analysis (Pandas, Excel, Python), Automation (Excel, Power Automate, Zapier, APIs), Executive-Level Slide Decks, Technical-to-Business Translation, Workshop Facilitation, SharePoint, Documentation Management
Project Mgmt.	Timeline/Milestone/Scope Management, Work Breakdown Structures (WBS), Critical Path Analysis, Dependency Tracking, Status Reporting, Budget Tracking, Stakeholder/Vendor/Executive Communication, Documentation Control, Gantt Charts, Waterfall Delivery, MS Project, Jira, Confluence, Notion, Trello, Excel
Communication	Executive Communication, Technical Writing, Technical Presentations, Cross-Functional Facilitation, Instructional Design, Public Speaking, Classroom Management
Languages	English (fluent), French (bilingual), Spanish (intermediate), Tamil (conversational)
Interests	Self-Published Author, Songwriting, A Cappella, Musical Theatre, Volunteering (500+ hrs, 8 countries)

AWARDS

Jones Family Academic Grant Jan 2025

Awarded the sole yearly $5,000 grant in the Faculty of Engineering, which recognizes students for strong academic achievement and demonstrated financial need.

University (Senate) Scholarship Jan 2025

Awarded an $800 scholarship, one of 300 provided annually to undergraduate students who achieve outstanding academic standing.

H.L. Hooker Scholarship Jan 2025

Awarded a $1,500 scholarship, one of 80 provided annually to undergraduate students who achieve outstanding academic standing.

NSERC Undergraduate Research Award May 2020

Awarded a highly competitive $6,000 NSERC Undergraduate Research Award to conduct a full-time research project with a faculty supervisor, underscoring strong academic standing and research potential.

SAG General Bursary Sep 2019

Awarded a general bursary to support educational costs, demonstrating a strong commitment to academic pursuits.

President's Award Sep 2019

Awarded $2,500 for a prestigious entrance scholarship that recognizes academic excellence and a final high school admission average of 95% or greater.

University of Toronto National Biology Scholar 2019 Jan 2019

Scored top 5% in Canada on the University of Toronto National Biology Competition

PUBLICATIONS

Abdul-Azeez, Dabeer. *12 Things I Learned By 21: and how I'd explain them to my 14-year-old self*. Self-published, January 9, 2023. Link to publication.

McMaster University. "McMaster student email is changing this summer – here's what you need to know." *McMaster University*, March 18, 2021. Link to publication.

Hoare, T. R., et al. "N95 Filtering Facepiece Respirator Reprocessing by Steam: A Large-Scale in-Hospital Implementation Study." *Journal of Hospital Infection,* 2020. Link to publication

Martin-Robbins, Karen. "'Something to cherish': Former Mississauga students launch online yearbook." *Mississauga News*, July 10, 2020. Link to publication.