CHAKIB BELGHAIT

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SKILLS & ABILITIES

- **Technical Skills***:*
  - Python, Machine Learning, VBA, MATLAB and HTML
  - AutoCAD, Fusion 360, Onshape, SolidWorks and GD&T (Intermediate)
  - 3D Printing, Manufacturing, Assembling, Soldiering, PLC (Beginner)
  - Microsoft Excel, PowerPoint and Word

- **Soft Skills:**
  - Good Teamwork skills refined during many team projects and research experience
  - Strong Communication obtained through various peer-tutoring and sales positions
  - Efficient Fast Learning skills gained during graduate research experience and design team
  - Problem Solving skills developed through my career in chess and during my time as a research assistant

EXPERIENCE

Concordia University   Montreal, Qc
Research Assistant   December 2024 – August 2025
- Collaborated with Physics Chairman and graduate students on the design and development of a closed-cycle cryogenic system for continuous operations at 4 K.
- Manufactured and assembled system's thermal link and isolation components using multiple machining techniques and electrolysis, beating projections by approximately 21%.
- Presented research findings to local scientific community through engaging PowerPoint presentations and a peer-reviewed article published in the university's scientific journal.

University of Waterloo Formula Electric (UWFE)   Waterloo, On
Aerodynamics Sub-Team Member   August 2025 – Present
- Designed and implemented three new joining methods using SolidWorks to optimize carbon fiber–aluminum connections, assembled and tested prototypes to validate performance.
- Tasked to manufacture joining connections for the front and rear wing , using multiple machining techniques such as CNC milling, drilling, Water Jetting, and vacuum bagging consolidation.

Bell Canada   Montreal, Qc
Sales Agent   June 2024 – December 2024
- Promoted and sold Bell and Virgin Mobile services to diverse customers, effectively communicating technical features and advantages, reaching 8-10 sales a week.

RELEVENT PROJECTS

Polytechnique de Montreal   Montreal, Qc
PolyFinance - Datathon   November 2025
- Coded and developed an app, in 36h, to aid investors analyze complex financial documents and comprehend their impact on their personal portfolio, using an AI agent.
- Used an HTML-CSS-JS frontend linked to a python backend using the FLASK library. Using Gemini's agent to generate summaries, forecasts, and risk mitigation, while also allowing users to use the agent as a Chatbot.

EDUCATION

University of Waterloo   Waterloo, On
Candidate to BASc. in Mechanical Engineering, UW Merit Scholarship, Chess Team Sub-Captain   April 2030

John Abbott College   Montreal, Qc
DEC in Pure & Applied Sciences, Graduated with Honours, Chess Team Captain   May 2025
Relevant Coursework: Honours Research, Earth System Science, Planetary Geology