Date of Birth: October 31, 1998
Research Assistant, University of Alberta

Omar Kamal

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Education

University of Alberta Sep. 2017 – Apr. 2023
BSc in Materials Engineering *Edmonton, AB*

- **Courses:** Chemistry, Cell Biology, Thermodynamics, Phase Transformations, Material Characterization, Electrochemistry, Fluid Mechanics, Materials Processing, Mechanical Properties, Process Design, Failure Analysis, Biomaterials, Bioengineering Design

Harry Ainlay High School Sep. 2013 – Jun. 2017
Partial IB Diploma *Edmonton, AB*

- **Courses:** English, Mathematics, Social Studies, Physics, Chemistry

Allendale Junior High School Sep. 2010 – Jun. 2013
Cogito *Edmonton, AB*

- **Courses:** English, Mathematics, Social Studies, General Sciences

Research Experience

University of Alberta 2023 – Present
Research Assistant under Dr. Roni Kraut *Edmonton, AB*

- **Hypertension in Older Adults:** Collected and analyzed data on hypertension prevalence in older adults, contributing to a comprehensive study aimed at improving patient outcomes.
- **ADHD Form Formatting Effectiveness:** Evaluated the impact of form design on the accuracy and efficiency of ADHD diagnoses in clinical settings.
- Collaborated with a multidisciplinary team to interpret results, leading to actionable insights published in a peer-reviewed journal.

Work Experience

Corsace 2015 – Present
General Organizer and Lead Software Developer *Edmonton, AB*

- Led a team to organize international events, increasing viewership by 20x through effective marketing and engagement strategies, and enhancing user experience for over 30 million users.

Shifa Medical Clinic 2014 – 2017
Technical Assistant *Edmonton, AB*

- Managed and organized patient records, ensuring 100% compliance with PIPEDA protocols and improving data retrieval speed by 200%.
- Resolved technical issues related to SQL databases and VPN connections, minimizing downtime and enhancing clinic operations.

Projects

Binder Jetting and Sintering Process Optimization 2023
Red Deer Polytechnic

- Conducted porosity measurements using image data processing and pycnometry to optimize manufacturing processes.
- Collaborated with academic staff to implement effective characterization methods, contributing to advancements in materials science.

Process Design for Wear-Resistant Excavator Blade Teeth 2022
University of Alberta

- Developed a comprehensive process design involving Ni-60 wt% Tungsten Carbide and 17-4 PH Stainless Steel.
- Performed energy and cost analysis to optimize the manufacturing process, resulting in a 15% cost reduction.