

KOWTHER HASSAN

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EDUCATION

University of Calgary

BSc, Computer Science

3.72/4.00 GPA

expected April 2018

Calgary, AB

University of Calgary

BA, Psychology and Linguistics

First Class Honours/ With Distinction

June 2013

Calgary, AB

EXPERIENCE

Virtual Touch/Visualization Tools Lab | University of Calgary

Research Assistant

June 2015 – Present

Calgary, AB

- Developing software for automating evaluation of surgical technique for a temporal bone surgery simulator by creating a set of performance metrics algorithms and accompanying user interface.
- Developing a neonatal ultrasound simulator for use in training in pediatrics. My Primary role is creating the interface using a user experience design process, and liaising with the client.
- Produce 3D models of clinical CT/MRI image data for incorporation into a virtual reality temporal bone surgery simulator. Patient-specific models I create are used by surgeons as part of their pre-surgical planning and for training.

Mood Disorders Lab | University of Calgary

Clinical Research Coordinator

Sept 2015 – June 2017

Calgary, AB

- Recruited and maintained contact with over 30 participants for a depression study involving MRI scans, an antidepressant treatment and machine learning techniques. Coordinated visits with the study psychiatrist and MRI sessions, screened applicants ensuring they met the enrollment criteria, and made independent judgment as to their suitability for participation. Created a protocol for recruitment and management which I used to train two new research assistants.

University of Calgary Libraries

Cataloging Assistant

Feb 2010 – Sept 2015

Calgary, AB

- Performed metadata searching on new and special collections items using on-line databases to verify the accuracy of records, make corrections and produce complete records ready for shelving.

SKILLS

Programming (Proficient): C++, Java, C#, Python

Programming (Familiar): C, Haskell, Prolog, ARM assembly v7/v8

Libraries/Platforms: ITK, Qt, Visual Studios, Eclipse, Arduino, Unity

Version Control: Git