Matt Medland

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PROFESSIONAL INTERESTS

- Computer graphics software.
- Digital media content development, deployment and monetization.
- Internet services and strategy.

EDUCATION

MSc in Applied Computing September 2017 – December 2018 (expected)
University of Toronto, Department of Computer Science
Courses (ongoing): Computer Graphics, Topics in Computer Graphics: Computational Design & Fabrication, Topics in Interactive Computing, Topics in Software Engineering: Modeling Methods, Tools & Techniques.

BSc in Computer Science September 2010 – July 2014
University of Glasgow, Department of Computer Science

PROJECTS

University of Toronto, Canada Jul 2012-Dec 2012
Computer Network Course Project

- "Building Internet Routers" and "Implementing a Reliable Transport Layer" (in C).
- Chrome Extension for Facebook users to analysis their social network data: time spend on Facebook, wall posts, subscribers, etc. (in HTML, CSS, and JavaScript).

The Fifth National University Student Innovation Test Plan Apr 2011 - Jun 2012
The Detection of WSN Coverage Holes with UAV

- Participate in developing a GUI in C# to show the flight course, gesture of an unmanned aerial vehicle (UAV) and remote image from the camera on the UAV.
- Modify the UAV with GPRS module, GPS module, wireless camera, etc. to realize the proposed method in practice.
- Proposed a geometric method for wireless sensor network (WSN) localization based on Received Signal Strength Indication (RSSI) distance measurement with a UAV, and a method for WSN coverage-hole detection based on Voronoi diagrams.

TECHNICAL SKILLS

Programming Languages: Java, Python, Ruby, C
Databases: MySQL, SQLite3
Web Development: Ruby on Rails, Django, Java Web Application, jQuery

PUBLICATIONS

Matt Medland, "Fundamental placement algorithms of recalcitrant professional master's students", Journal of Exploited Students, 43, 3 (Sept. 2013), pp32-189.

Matt Medland, "The big gap between big data and insight", unpublished.