

# Mohammed Adham

Mechatronics Engineering, Economics Minor  
University Of Waterloo  
Graduation: 04/2010

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## Summary of Qualifications

- Consistently thinking out of the box to find new ways to solve problems and address issues
- Strong knowledge of the financial industry built through studies and personal research
- Good understanding of business and management principles built through a minor degree in economics
- Excellent teamwork dynamics developed through 8 months experience in a 6 person team
- Strong knowledge of Microsoft Excel, Visual Basic, C, C++, Perl, and MATLAB development
- Fluent in English and French

## Education

**Candidate for Bachelor of Applied Science, Economics Minor** Sept '05 – May '10

Honours Mechatronics Engineering, University Of Waterloo, *Waterloo, Ontario*

- Relevant courses: Intermediate Macro/Micro Economics, Real-Time Operating Systems, Data structures and Algorithms, Statistics, Differential Equations, Financial Modelling
- Final Year Project: Design and development of an autonomous mobile robot using a microcontroller controlled by computer vision notebook

**Engineering Exchange Year Abroad** Sept '08 – Jun '09

Swiss Federal Institute of Technology, *Lausanne, Switzerland*

- Relevant courses: Cost-Benefit Analysis and Project Evaluation, Management of Technology, International Macroeconomics, Financial Econometrics

## Professional Experience

**Interim Engineering Intern**

QUALCOMM Inc. (*San Diego, California*)

- Member of the Linux OS kernel team, working closely with customers to launch Linux on Qualcomm chips for use in high end cellular phones running the Android operating system
- Responsible for driver development, maintenance and documentation on a multitude of platforms
- Designed, developed and tested a new boot loader for the Linux kernel that proved to be 50% faster than the legacy solution
- Submitted patches to the mainline Linux kernel to patch various issues with ARM assembly start-up code.

Jun '08 – Aug '08

Jul '09 – Sept '09

**Field Test Specialist**

Research in Motion Limited (*Seattle, Washington*)

- Lead a team of 6 on the research and implementation of test requirements for two new wireless technology products
- Established a new statistical reporting system to monitor product maturity and summarize field results for use in executive oriented reports
- While working directly with corporate customers throughout North America, was responsible researching a cause and solution to reported field issues within 24 hours of discovery

Jan '08 – Apr '08

Apr '07 – Aug '07

**BlackBerry Systems Engineering Coordinator**

Research in Motion Limited (*Waterloo, Ontario*)

Sept '06 – Dec '06

- Coordinated a team of 30 engineers to adapt new customer requirements and meet product release deadlines for over 130 carriers worldwide
- Independently established a software system to automate current software release processes, resulting in a 50% increase in release turnaround

#### **Stamping and Die Maintenance Coordinator**

Dec '05 – Apr '06

F and P Manufacturing Inc. (*Tottenham, Ontario*)

- Independently coordinated a diagnostic project to reduce cost in manufacturing processes resulting in cost savings of \$180,000 per year with an initial \$80,000 investment
- Isolated problems, and administrated solutions for all production standards to ultimately pass a ISO9001:2000 standard certification
- Designed and implemented a data-basing software system in VBA to statistically analyze and minimize risk of stamping press components, resulting in minimized press downtime

### **Extra Curricular Activities and Interests**

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#### **Entrepreneur in Residence, VeloCity**

Jan '10 - Present

- Resident in Waterloo's innovative "VeloCity" residence, a start-up incubator/residence for student who are actively involved in entrepreneurship
- Leading a team of 6 to launch an online social investment community, in which anyone can manage an investment fund, and investors can invest along-side top managers

#### **Staff Columnist, Iron Warrior Newspaper**

Sept '09 - Present

- Columnist for the University of Waterloo official Engineering student newspaper
- Writer of a bi-weekly column about different laboratories and research currently underway at the University of Waterloo, with a focus of emerging technology

#### **Director of Exchange, Engineering Society B**

Sept '09 – Dec '09

- In a team of two, responsible for planning, budgeting, and coordinating trips and events for exchange students in the engineering faculty
- Co-ordination between different faculties and association of cross-faculty events

#### **Entrepreneurs Association of the University of Waterloo**

May '05 - Jan '08

- Selected as a delegate to represent the University of Waterloo at the 2007 Impact Leadership Conference, Canada's largest student entrepreneurship event
- Co-founded a Luxury auto-importing firm to assist Canadians take advantage of international price disparities
- Designed a real-time software system to assist in statistical analysis of derivatives market data

#### **Waterloo Space Society**

Jan '07 – Jan '08

- Member of the space enthusiasts club, in charge of launching model rockets, observation sessions, as well as conference coordination
- Designed and currently building a photography system to photograph the middle stratosphere by way of weather balloon and GPS/GSM systems for payload recovery

#### **Other Activities**

Dec '05 - Present

- Member of Lausanne rowing club, participated in year-end 30km race (2009)
- Certified recreational scuba diver by the National Association of Underwater Instructors
- Member of the University of Waterloo Ski club, and an avid back-country skier
- Active member in many intramural leagues, including soccer, volleyball and basketball
- Amateur Disk Jockey, volunteering services to student club events
- Website: [www.eng.uwaterloo.ca/~madham](http://www.eng.uwaterloo.ca/~madham)