

Abdul Rehman

2B Electrical Engineering | a25rehma@uwaterloo.ca | 519-721-4249

SKILLS

LANGUAGES

C# • Java • C++
JavaScript • HTML • CSS • VHDL
Assembly • Matlab

TOOLS AND FRAMEWORKS

Node.js • AngularJS •
Angular Material • Mocha
PostgreSQL • MVC • Bootstrap
Git • Unix
Microsoft Visual Studio
Eclipse • vim

EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELOR OF
APPLIED SCIENCE IN HONOURS
ELECTRICAL ENGINEERING,
CO-OP

September 2014-Present

COURSEWORK

UNDERGRADUATE

Algorithms and Data Structure
Discrete Math
Digital Computers
Electronic Circuits
Numerical Methods
Engineering Profession, Ethics and
Law

ONLINE COURSEWORK

Introduction to Algorithms (MIT)
status: in progress)
Microelectronic Devices and Circuits
(MIT| status: in progress)

AWARDS

Awarded the distinction scholarship
by the University of Waterloo
Awarded the certificate of excellence
for 3 years in a row in high school

EXPERIENCE

SOFTWARE ENGINEERING INTERN | SOLINK CORP

January 2015 - April 2015 | Kanata, On

- Designed, developed, and tested multiple features, enhancing core cloud application, all of them currently in production
- Designed and wrote access permissions throughout the central monitoring application, such as publicly exposed internal APIs, authentications, and creating and assigning data reports, making it secure and reliable for all level of users
- Developed various automated tests in Mocha framework with maximum code coverage
- Implementation in HTML/CSS/AngularJS (frontend) and Node.js (backend) using node and gulp servers

IS ANALYST, CLIENT SUPPORT | MAPLE LEAF FOODS

May 2015 - Aug 2015 | Mississauga, On

- Increased Microsoft configuration manager asset database accuracy by resolving a discrepancy involving over half a million dollars worth of hardware
- Developed several efficient standard operation procedures (SOPs) including virus removals and employee terminations
- Conducted training seminars for business affiliates (CDW) to work with company's hardware databases upon both annual life cycles and breakage replacements
- Ensured successful migration from IE 8 to IE 10 and Outlook 2010 to Cloud as a member of the Hyper Care team
- Provided hardware and software support to company employees working with Windows and VMs
- Formalized current and newly developed processes in the IT department using Microsoft Visio

PROJECTS

LEGO ROVER ROBOT (LEGO MINDSTORM) | PERSONAL PROJECT

- Programmed the ARM microcontroller of the robot in GUI to solve complex maze by following coloured lines
- Used multiple sensors in the algorithm to detect and handle obstacles such as certain colours, luminous flux, sound frequencies, and walls

TRAFFIC LIGHT CONTROLLER (VHDL) | EMBEDDED SYSTEMS LABS, WATERLOO

- Programmed state machine to mimic the functionality of a signal light on the FPGA board
- The lights functioned accordingly to daytime and night time through sensors

PHARMACEUTICAL DRUGS SORT | PERSONAL PROJECT

- Built various methods to read data file of 16000+ drugs and sort it
- Implemented C# code to analyze the data file and perform arithmetic operations on data
- Performed error checking and debugging to fulfill pre-defined specifications