GEORGE JOSE

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B.A.Sc. MECHATRONICS ENGINEERING, UNIVERSITY OF WATERLOO

TECHNICAL SKILLS

- Solid programming experience in Java/J2EE, C++, C, Matlab, Python; Proficient in HTML, CSS, PHP, MySQL; Currently learning MEAN stack
- Experience with Real Time Operating Systems, Bash scripting, Git
- App design and development skills gained through developing on Android
- Extensive experience on Arduino and Raspberry Pi gained through personal and school projects
- Excellent 3D CAD skills – Proficient at Solidworks, Pro Engineer, NX, Google SketchUp, AutoCAD, Abaqus
- Hands-on electrical skills – Soldering, working with Multimeters, Function Generators, Oscilloscopes

SKILLS SUMMARY

- Exceptional analytical and problem solving skills developed while working on several individual and group projects
- Adaptable and always eager to learn. Ability to work under minimal supervision
- Strong team player; highly motivated and hardworking

WORK EXPERIENCE

DELOITTE
Business Technology Analyst, Systems Integration
Jan 2015 - present

- Working on a large technology transformation program at a top 5 Canadian bank
- Knowledge of Enterprise IT Architecture gained through working on program estimation
- Program management experience gained through working within PMO

ROCKWELL AUTOMATION
Intern, Quality Engineering
Oct - Dec 2012

- Reduced average defects per unit in medium voltage drives from 10.2 to 7 using Pareto & Process Failure Mode Effect Analysis (PFMEA) and implementing countermeasures; led to massive cost savings
- Greatly simplified root cause and Pareto analysis by developing self-updating quality analysis tool using python & VBA

TOYOTA MOTOR MANUFACTURING CANADA
Java/J2EE Developer
Jan -Apr 2012

- Optimized annual inventory process by 50%, leading to cost savings of $200k+; Improved efficiency attained through designing and implementing a tablet based solution based on J2EE
- Developed several modules for internal software system used to audit employee hours and plan vacation days in Java

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2SOURCE MANUFACTURING
Manufacturing Engineering Co-op
May - Aug 2011

- Designed and implemented an internal company request management system leveraging PHP, MySQL, HTML & JS in order to streamline process leading up to manufacturing
- Designed and implemented database for parts using MS SQL Server & C# with graphical front-end
- Created and modified several parts and drawings in Solidworks for production

RELEVANT PROJECTS

3D Laser scanner	• Designed and built low cost, innovative laser sensor capable of modeling its environment and objects around it in 3 dimensions. 3D point cloud data is streamed to computer in real time wirelessly over UDP • Possible applications: autonomous robot navigation, physical object replication, animation and 3D modeling Technologies used: Raspberry Pi, Arduino, C++, Python, Matlab, Meshlab, image processing, UDP, ZigBee, machining, 3D printing, circuits
Autonomous boat	• Designed and created an autonomous boat capable of navigating itself around racecourse • Utilized IR proximity sensors, IMU, implemented PID controller on Arduino
Real Time Operating System	• Programmed Real Time Operating System (RTOS) on top of UNIX using C, C++ and concepts in algorithms and data structures • Implemented concurrency, timing services, process management, inter-process communication, scheduling and other features
Facebook Hackathon 2014	• Designed and built interactive light-up T-Shirt in 24 hours • LEDs in 'Like-meter' light up as people like your recent activity on Facebook Technologies used: Raspberry Pi, Facebook APIs, Python

EDUCATION

UNIVERSITY OF WATERLOO
B.A.Sc. Honors, MECHATRONICS ENGINEERING
CLASS OF 2014

Relevant Courses:
Machine Intelligence, Computational Neuroscience, Finite Element Methods, Real Time Operating Systems, Algorithms & Data Structures, Microprocessor Systems & Interfacing, Linear Systems and Signals, Digital Controls, Technical Entrepreneurship

VOLUNTEER EXPERIENCE

Engineers Without Borders (EWB)	• Volunteered on fundraising team. Assisted with event organization and management
UW Canada Day Celebrations	• Volunteered for event organization and security

ACTIVITIES AND INTERESTS

- Was actively involved with several student clubs including fencing, tennis, Engineers Without Borders (EWB), badminton, UW Tennis, archery, salsa, paintball
- Enjoyed skydiving, 1hr experience flying Cessna 152