KAREEM SHEHATA

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Canada

Profile
Senior software and product developer with over 10 years industry experience.

Skills
- Certified ScrumMaster
- Software Development in C/C++, Java, C#/VB.NET, Python
- Circuit design in both analog and digital domains
- System integration and debugging, including new hardware bringup
- Team leadership and project management

Experience
Lead Software Developer, Clearpath Robotics Kitchener, ON, 2014-Present
- Lead team to develop large autonomous vehicle for mining industry
- Planned project, including scope, resources, and timing
- Worked directly with customer to determine true requirements
- Designed software architecture and planned implementation
- Guided and reviewed implementation of the team's software code
- Implemented comm. structures, sensor interfaces, and vehicle control
- Key technologies: ROS, Robot Simulation, Embedded Linux, Lidar, Radar, Python, embedded C/C++

Senior Software Developer, Aeryon Labs Waterloo, ON, 2008-2013
- Lead software development for Scout and SkyRanger platforms
- Implemented Agile development process and continuous integration
- Designed and implemented new architecture for Mission Control Station, including pluggable mapping and video support
- Evaluated and lead introduction of new platform technology including Python, messaging services, and logging services
- Key technologies: Embedded Linux, Linux Kernel Drivers, network programming and messaging, IP video (RTP/RTSP), Python, Java/Swing, embedded C/C++

Independent Consultant Waterloo/Toronto, ON, 2006-2007
- Provided software and systems development expertise to client projects
- Projects typically involved development of new or modification of existing software systems based on customer specifications
- Clients included: JMP Engineering, Scotiabank Jamaica, Parmalat, TMMC
- Key technologies: C#, MS SQL Server, Oracle PL/SQL

Control Systems Software Designer, ATS Advanced Systems
Cambridge, ON, 2004-2006
- Lead software development for several advanced automation projects
- Designed architecture and implemented software control solutions
- Key technologies: QNX, software PLCs, Visual Basic, machine vision, Stäubli robotics, motion control

Education
University of Waterloo — B.A.Sc. Electrical Engineering, 2003