Sang-Joon Lee

sangjlee@bu.edu | LinkedIn: www.linkedin.com/in/sangjoonsjlee | www.sjlee.ca

Education

MASTER OF SCIENCE, COMPUTER SCIENCE | BOSTON UNIVERSITY | 2015 – PRESENT

- Related coursework: Artificial Intelligence, Image and Video Computing, Distributed Systems, Databases, Algorithms

BACHELOR OF APPLIED SCIENCE, COMPUTER ENGINEERING | UNIVERSITY OF TORONTO | 2000 – 2005

- Related coursework: Software Engineering, Operating Systems, Computer Architecture, Digital Signal Processing

Relevant Experience

SENIOR APPLICATIONS ENGINEER | MATHWORKS | FEB 2012 – JAN 2015

- Technical focal point for major customers as an expert in Model-Based Design development using MATLAB & Simulink products, such as control system development, physical modeling, and code-generation for embedded systems.
- Responsible for debugging, investigating and resolving technical issues from major customers in Aerospace, Automotive, Medical, Energy, and Controls industries – who are using Mathworks products to develop advanced control & systems.
- Technical Projects: ET (Embedded Technology) Robocon Competition – led a team of 15 engineers to participate in annual competition to design, implement and build a two-wheel based balancing robot for 3 years.
- Languages: MATLAB, C/C++, Java
- Tools: Visual Studio, MATLAB, Simulink

SENIOR SOFTWARE & SYSTEMS ENGINEER | PROLUCID TECHNOLOGIES | NOV 2010 – FEB 2012

- Member of software consulting startup with less than 10 engineers. Responsible for the entire software & hardware development life cycle process from requirement gathering, development, test, deployment, project management and customer support.
- Led development of customized software & hardware for clients including embedded control system design, FPGA, real-time signal processing for industrial real-time monitoring software and product prototyping for product commercialization.
- Languages: C/C++, SQL, HTML
- Tools: LabView, MySQL

SYSTEM DESIGN ENGINEER II | HONEYWELL AEROSPACE | MAY 2005 – NOV 2010

- Member of advanced technology research and development team at Honeywell Aerospace Power Systems Group. Worked in parallel with principal systems engineers and cross-functional engineering groups to design, implement, and execute system design and verification of avionic systems, and built prototypes for future product research & development.
- Technical Projects: System modeling for Electrical Power Distribution System for Commercial & Military Aircraft – led team of 5 engineers modeling software and hardware system using MATLAB & Simulink and code generation in C for embedded systems.
- Languages: C/C++, MATLAB
- Tools: MATLAB, Simulink

SYSTEM DESIGN ENGINEER (INTERN) | HONEYWELL AEROSPACE | MAY 2003 – AUG 2004

- Responsible for developing auto-code generation tool for rapid prototyping software development code, resulting in extensive cost savings throughout various projects.

Skills

- C/C++, MATLAB, Simulink, Java, Python, Go, SQL, Javascript, MongoDB, Node.js