

SANG JOON LEE

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WORK EXPERIENCE

Senior Applications Engineer, *MathWorks*

Feb 2012 – Dec 2014

Expert in Model-Based Design, controls and physical modeling using MATLAB & Simulink; served as a technical focal point for investigating and resolving technical issues from major customers in Aerospace, Automotive, Medical, Energy, and Controls industries.

- Worked closely with customers on daily basis as a technical liaison between customers and development teams to investigate & debug technical issues on Simulink products and C/C++ code generation issues.

Senior Software Engineer, *ProLucid Technologies*

Nov 2010 – Feb 2012

Member of software consulting startup with less than 10 engineers. Responsible for leading development of custom hardware and/or software for clients including embedded systems, application development, product prototyping, and product commercialization.

Systems Design Engineer II, *Honeywell Aerospace*

May 2005 – Nov 2010

Member of advanced technology research and development group. Worked in parallel with principal systems engineers and cross-functional engineering groups to design, implement, and execute system verification of avionic systems and built prototypes for future product development.

- Projects include: Hybrid Electrical Power System, Electrical Power Distribution System for Military Aircraft, and Advanced R&D projects for commercial aircrafts.

Systems 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.

Research Assistant, *Bioengineering Division – Sunnybrook Hospital*

May 2002 – Sep 2002

Developed a backup real-time data acquisition system to collect position of a moving platform mainly used for biomechanical and neural control of postural balance & movement research.

EDUCATION

Master of Science, Computer Science, 2015-present

Boston University

Bachelor of Applied Science, Computer Engineering

University of Toronto

PUBLICATIONS

David Lazarovich and Sang-Joon Lee, "Approach for an Integrated Multi-Domain Aircraft Energy Model", SAE International Journal of Aerospace, April 2009 vol. 1 no. 1 1053-1058.

Ileana Rusan, Sang-Joon Lee and Anantha Koduru, "Early Validation of Power Distribution Channel Controller LRM Requirement using Rapid Prototyping Simulations", SAE Power Systems Conference, Seattle, Washington, Nov 11-13, 2008.

Sang-Joon Lee and Kaamran Raahemifar, "FPGA Placement and Optimization Methodology: A Survey", IEEE CCECE'08: Symposium on Circuits, Devices and Systems, Niagara Falls Canada, May 4-7, 2008.

PATENTS

Inventors: David Lazarovich, Ileana Rusan, Joe Nutaro, Sang-Joon Lee, Ted Gayowsky
Title: "Method for Active Power Management And Allocation of Functionality", United States Patent 20100280682, Issued November 4, 2010.