

# John Hovell

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## SUMMARY

Versatile embedded engineer transitioning to product manager, field application or technical sales role.

## TECHNICAL EXPERIENCE

**Structural Wealth Management LLC, Senior Software Developer**, San Francisco, CA, 2008 – July 2009  
Architected database schemata, wrote code, and managed a team of developers in a growing startup environment.

**Tesla Motors, Inc., Test Engineer/Consultant**, San Carlos, CA, 2007 – 2008  
Implemented fully-automated regression testers for the critical safety electronics of world's largest (1000+ lbs) lithium-ion (Li-Ion) battery pack. Used results to improve safety and reliability. With one other engineer, ported 25,000 lines of system-critical PIC assembly to C, completed testing and documentation in under two months.

**Spansion, Inc., Product Marketing Engineer II**, Sunnyvale, CA, 2004 - 2006  
Product manager for line of Flash memory products from inception to launch. Owned the product research, justification, development, testing, sampling, production and retirement processes; worked with leaders of respective groups to deliver products to market on schedule.

**SRI International, Student Associate**, Menlo Park, CA, 2002 - 2003  
Designed FPGA-based hardware to construct a real-time 3-D model from two camera images for autonomous robots.

**Paul Allen Center for Integrated Systems, Research Assistant**, Stanford, CA, 2001  
Wrote software to control a DARPA-funded experimental electron beam semiconductor lithography device.

**Stanford University, Coursework**, Stanford University, CA, 1999 - 2004  
Graduate-level coursework in alternative energy processes, green design, accounting, corporate finance, investment science, IPO valuation, manufacturing, product design and product sketching.

## LEADERSHIP AND TEACHING EXPERIENCE

**Stanford University, Resident Computer Coordinator**, Stanford CA, 2001-2004  
Supported 200+ residents' in-room network connections, personal computers, and Stanford network infrastructure.

**Self Employed, Consultant**, Darien, CT, 1997 - 2001  
Network consultant with accounts including The Hartford (Hartford Life), Christian & Timbers, and Prudential Real Estate. Sole proprietor of firm grossing over \$50,000 while in high school.

## EDUCATION

**Stanford University**, Stanford, CA  
**Master of Science** in Electrical Engineering, 2004  
Certificate in Alliance for Innovative Manufacturing  
**Bachelor of Science** in Electrical Engineering, 2003  
Minor in Management Science and Engineering  
Specialty in computer hardware

## TECHNICAL SKILLS

- Electronics Skills: Mixed signal circuit design, component selection, bring-up, debugging, rework, microscope soldering, high voltage, high current, power electronics, SPI, I2C, CAN bus (ISO 11898), Freescale HCS12/08, Microchip PIC 18F microcontrollers, Altium Designer.
- Programming languages: **C, C++, Java, PHP, MySQL, C#, Visual Basic, Verilog, HTML, SVN, CVS, MIPS assembly, Blackfin DSP assembly, PIC assembly, C18 compilers.** Expertise in **Linux, Windows** and **MacOS.**

## INTERNATIONAL

- Spent May 2006 – April 2007 travelling in Russia, Greece, former Yugoslavia, Eastern Europe, Germany, England, Morocco, Dubai, Borneo, Indonesia, Malaysia, Singapore, Cambodia, Thailand, Hong Kong, and Sri Lanka.