

Richard P. Hooper

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Education

University of California (UCLA)

Los Angeles, CA

Ph.D. in Computer Science majoring in database management systems specializing in the automatic/bi-directional transfer of databases of differing data schemas.

M.S. in Computer Science with thesis in pattern recognition and artificial intelligence. Three years as teaching associate with the Computer Science Department.

B.A. in Mathematics-Computer Science, Cum Laude.

Professional Experience

2007 – present

Technology Impact Consulting LLC

Irvine, CA

Chief Technology Officer, Owner, Managing Director

- Full Stack (server/client/UI) Web development with Java/String/Hibernate/REST, PHP/Zend/Doctrine/REST, Javascript, jQuery, Backbone, Angular, Underscore, Bootstrap for a residential real estate investment firm. Wrote backend interfaces with Citrix/Sharefile, DocuSign, Cloud OCR. Client: Homeunion
- Web development with Javascript, AngularJS, NodeJS, GIT, JIRA, REST, JSON, Python, and PostgreSQL for a medical records/procedure authorization SaaS product. Client: Voluware.
- Advising startup entrepreneurs, Fortune 100 companies, and government agencies. Specialties include software/systems architecture, cloud computing, SOA, SaaS, location based services, semantic web, Web 2.0, video analytics, and other cutting edge technologies. Clients: Revongo, Automaptics, RSF advisors, The IMS Company, Innovative Software and Sensors, LLC.
- Business/project analytics automation, eliminating hours of labor producing manual report, spreadsheet, and presentation preparation by automation, compiling/merging data from disparate sources using Microsoft VBA macros and Windows scripting. Client: Boeing
- Met client's contract requirements for software path coverage (UIC) for complex CORBA-based C++ applications using Google Test and Google Mock tools under Linux. Client: Boeing
- Enabled sales of in-flight entertainment units by meeting client's contract requirements for product performance criteria by extracting performance data from raw files collected on multiple Lufthansa trial flights. Constructed a MySQL database, updated via Linux Bash/Cron scripts. The results proved the system under test/trial passed the acceptance criteria. Client: The IMS Company (now Zodiac)
- Developed several Web sites using an MVC framework (Symfony/PHP/MySQL/Javascript/jQuery/AJAX/Doctrine ORM/MongoDB). Clients: Newcomers Club of Newport

Beach, Regal Resources. For these clients and others which are not named at present, I have developed the backend MySQL data model and corresponding Entity classes. In addition, I have developed extensive business logic in the controller sections of the Symfony framework working with HTML pages, Twig templates, and AJAX/JSON page updates for user logon, file uploads, and page content. I have written many lines of Javascript/jQuery code for interactive user interface along with HTML5 SVG components, and custom CSS styling. In addition to Symfony2 MVC/PHP code I have done customized WordPress sites also using Javascript and PHP. More information at <http://techimpactcons.com>

2013 – 2013 TeleCommunications Systems, Inc. (TCS) Aliso Viejo, CA

Director of Engineering – Systems Engineering (September - November)

- Lead a team of talented systems engineers, solutions architects, product quality engineers, and software configuration managers.
- Worked toward business process improvements, streamlining, and automation.
- Led workshops to surface the vital factors for product quality at TCS and identify next steps to reach the division goals.
- Briefly, performed initial R&D into future product directions in location based services and navigation.
- Tenure at TCS was cut short due to major sales losses resulting in a large company-wide reduction in force to cut expenses. The losses stemmed from
 - the US Government shutdown at the beginning of US fiscal 2014;
 - cutbacks in the company's government services division sales due to the US Government sequestration; and
 - significant changes at Blackberry.

1985 – 2007 Iteris, Inc. (formerly Rockwell International) Anaheim, CA

Vice President, Engineering – Automotive Sensors

- Secured sales of over \$6M for the fiscal year ending in 2007 by developing a second generation video-based image processing product.
- Brought to market the first North American Passenger Vehicle Lane Departure Warning System (Infiniti) and multiple commercial truck fleets (including Mercedes Benz trucks, MAN, Fuso, Scania, and Freightliner).
- Established and executed engineering processes using industry recognized models such as the Software Engineering Institute's CMM/I. Utilized a variety of software development life-cycle models including agile, spiral, extreme programming, waterfall, and rapid prototyping. Have utilized industry tools such as UML, Rational's suite of tools.
- Adept at understanding and utilizing corporate information systems including Oracle ERP, Agile configuration management, and source control software (SVN & GIT). Wrote specialized queries using the Oracle Discoverer in order to improve cost tracking and to highlight cost-reduction targets.

Chief Scientist – Transportation Systems

- Developed the nation's first National Intelligent Transportation Systems Architecture, unifying the system functions and data interfaces among all of the nation's traffic management, public transit, traveler information and vehicle to infrastructure communication. Taught workshops, developed training materials, website, and documentation.

Vice President – Personalized Traveler Information Systems

- Staffed and led a team developing an enterprise web-based nation-wide service to deliver personalized real-time transportation information and other location based services. The system was based upon Enterprise JavaBean Technology (J2EE) in an n-tiered architecture.
- Developed an emerging nationwide network to provide answers to 2 user questions: 1) "Which way should I go?" and 2) "How long will it take to get there?". The system was comprised of a database, raw information gathering, aggregation algorithms, and end-user information dissemination via cell phone (voice), internet/web, radio/broadcast, and government 511 interfaces.
- Recruited and staffed a new organization of 30 people in a matter of months during the high-demand days for software engineers in 2000.

Awards and Recognition

- 1991 Rockwell Engineer of the Year - Leonardo Da Vinci Award Winner, chosen as one of 15 honored from 17,000 engineers worldwide employed by Rockwell International as part of National Engineer's Week.
- Hughes Doctoral Fellow
- Rohr Undergraduate Scholarship