

Dr. Joseph T. Foley

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Professional

Mechanical Design, Radio Frequency Identification, Manufacturing Design and Process Control, Computer Automation, Distributed System Design, Network Administration and Security, Database Applications.

Interests

Robotics, Automatic Identification and Information Collection, Wireless Communications, Computer-CAM/Instrument Interfaces, Digital Design, Home Automation.

Education

Bachelor in Computer Science and Electrical Engineering (MIT, June 1999)

“Low-cost Automated Pine-Car Derby System”

Master of Engineering in Computer Science and Electrical Engineering (MIT, June 1999)

“An Infrastructure for Electromechanical Appliances on the Internet” US Patent 7,765,253

MIT Doctorate of Philosophy in Mechanical Engineering (MIT, February 2007)

“Security Approaches for Radio Frequency Identification Systems”

Experience

Consultant

September 2010 – Current

Foley Consulting

Salem, NH USA & Reykjavik, Iceland

Finite Element Analysis of advanced structural composites used to develop a high speed quadraped robot in Professor Sangbae Kim’s Bioinspired Robotics Laboratory.

Senior Research Scientist, Government & Industrial

Research Division

November 2007 – August 2010

iRobot Corporation

Bedford, MA

Creating and implementing mechanical designs for robot platforms. Tech lead for DARPA DSO ChemBots project. Software developer on DARPA NOSTRA project.

Teaching Faculty

September 2005 – January 2006

Harvard Extension School

Cambridge, MA

Teaching Assistant for CSCI-E-170: Computer Security and Privacy.

Software Developer and Network Administrator

June 1999 – Sept 1999

Emode, Inc.

Cambridge, MA

Developed world’s largest fully-indexed Quote Database.

Developed and installed network security policies and equipment.

Network Programmer

June 1996 – September 2000

MIT Information Systems

Cambridge, MA

Development of network event paging system (Network Operations). Implemented intrusion and packet-sniffer detection (Network Security). Created DNS configuration parser/checker.

Skills

Project Management: 8D, Total Project Control, Toyoda Manufacturing Methods

Computer languages: C(++), Perl, Python, PHP, Java, XML, lexx, SQL, PICASM

UN_X/Media development tools: HTML/CGI, L^AT_EX, PostScript, sh, CVS/Subversion, Kerberos

Mech E Tools: Matlab, Maple, ProEngineer, Windchill, SolidWorks, Rapid Prototyping, CNC Machining

Digital System Design: Logic Analyzer, Serial Protocol Analyzer, Controller Simulators