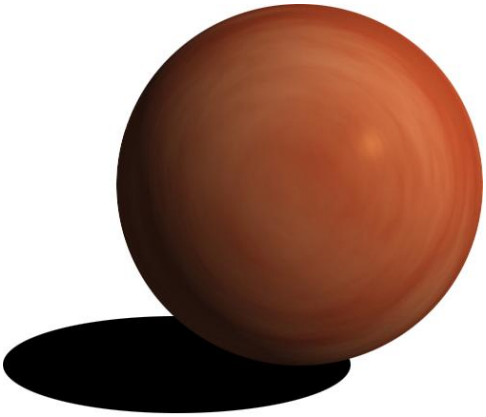
SEAN REYNOLDS

Is it your idea?



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Personal Qualifications

I'm an excellent Software Engineer of high-level object-oriented designs in any language.
I'm unique because I understand the interplay of Electrical Engineering, Physics and Code within complex designs.
I bridge Hardware and Software to create tightly integrated solutions.

Personal Interests

I personally enjoy writing software that interacts with the world, where my code leaps off the desk. I thrive in environments where everyone is challenged to learn. I engage well with people of all levels skill sets, learning from those ahead and helping those behind. I am an unorthodox out of the box thinker.

Objective

I have recently earned a Masters in Computer Engineering from Washington University.
I plan to write embedded software engineering solutions in a growingly interconnected world.
Through mobile devices and embedded solutions, I wish to connect users to machines like never before.

Additional Information

I have always had a passion for programming. I am a naturally analytical person which is advantageous. I recently graduated with an emphasis in Embedded Software and Robotics. My bachelor's degree encompassed Physics and Mathematics, which help a fundamental understanding of Electrical Engineering.

After graduation in May 2004, I moved to London because I crave diverse perspectives and love to travel. I was the Lead Automotive Software Engineer at BBA-reman when I left. I went to India to hire and train software engineers on the projects that I developed. I was in charge of everything relating to software for my company. I developed assembly programs for PIC microcontrollers to transmit signals directly into ECU's. I integrated CANbus transmissions retrieved from wheel speed sensors into a C# solution for transmitting back various wheel speeds to ABS pumps. I researched and interrogated vehicles with oscilloscopes to create test equipment for automotive parts.

I am looking for a company, where new and innovative ideas can be applied to achieve higher standards of engineering. I would like to work for a company which is on the leading edge of research and development for Embedded Design. I enjoy contributing my determined resourcefulness to projects, and achieving ground breaking results.

Thank you for your consideration.

Location Status: US Citizen in US
Target Locations: Saint Louis, Boston
Target Company Category: Robotics, Embedded Software
Target Position: Embedded Software Engineer
Willingness to Travel: 100%
Date of Availability: 2 to 4 Weeks

Current Career Level: Senior
Years Of Relevant Work Experience: 10 Years
Project Leadership Experience: 8 Years
Education: Master of Science in Computer Engineering
University: Washington University Saint Louis
Final GPA: 3.75 of 4.0 (A- average)

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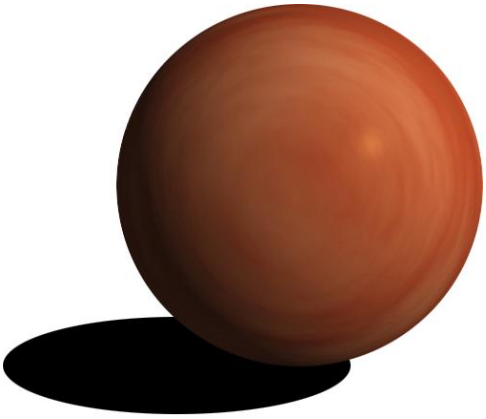

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Education

2007 - 2011
Washington University Saint Louis
Master of Science in Computer Engineering
Emphasis in Robotics

2000 - 2004
Concordia University Seward Nebraska
Bachelor of Science in Computer Science
Minors in Physics and Math

Relevant Courses

Embedded Computing Systems
Wireless Sensor Networks
Introduction to Artificial Intelligence
Machine Learning
Computational Geometry
HCI and Video Game Programming
Technology Entrepreneurship
Mobile Robotics
Advanced Mobile Robotics
Introduction to Computer Systems
Introduction to Computer Organization
Operating Systems and Computer Architecture I & II
Organization of Programming Languages
Data Structures and Algorithm Analysis
Database Design and Management
Applied Cryptography
Foundations of Statistics
Electronics
Modern Physics
Advanced Physics Lab
Introduction to Nuclear and Particle Physics
Electricity and Magnetism

Relevant Projects

Wash UAV autonomous helicopter
STRIPES planning algorithms
Nonlinear Voronoi diagram with Google maps
Simultaneous localization and mapping
3D point bag for optic flow in SLAM algorithms
Measuring the Speed of Light
Distributed Processing for Factorization
Neural Network Back Propagation in C#
Support Vector Machines for Machine Learning

Experience

Cognitive Spring
Founder, Software Engineer 2011-Present

- Designing and Creation of cSpring Humanoid Robot Development Project
- Embedded C++ software engineering
- Actuator integration using PWM signals
- Integration of proximity sensors for both sonar and laser range finders
- Power management for mobile robotics
- 3D point cloud analysis for mapping environments
- Motor control with embedded C++ and Atmel processors
- Development of complex ankle and hip joints for mechanical design

Byrne Software Technologies Inc.
Senior .Net Software Engineer 2006-Present

- Embedded handheld computer development for integrated systems
- High-Level Object-Oriented Design and Implementation
- High volume multi-threaded application development
- Task based programming in .Net 4.0 for multi-threaded designs
- Creation of Polymorphic drop in plug and play DLL's
- Business layer web service integration for three tier systems

- Meeting with clientele to discuss new project proposals
- Continually demanded by clients to return and help with additional projects
- Working with CEO to expand business to cutting edge product development

BBA-reman
Senior Embedded Automotive Software Engineer 2004 - 2006

- Embedded applications for use on 8051 microprocessors
- Data transformations using regular expressions
- Research and development for new test equipment
- Design and development of ABS test equipment.
- CANbus network integration and packet creation
- Data acquisition and communication with automotive ECU's
- Programming of flash memory and microprocessors
- Soldering surface mount and flash memory chips
- Streamlining the manufacturing process for the company around software

- Expanding product lines through systems integration with research & development
- Responsible for the creation of digital job board for metrics
- Increasing sales over $100,000 per month within 6 months
- Reducing warranty re-work by 75% by engineering effective test equipment

Languages

C, C++	ten years
Assembly	three years
ASP.Net, SQL	eight years
C#, Java	eight years
Perl	two years
Python	one year
LISP	one year
CANbus	one year
Objective C	one year
ROS Syntax	one year

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