Greg Linscheid

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA
B.S. Mechanical Engineering, GPA: 3.4
Minor in Computer Science
Coursework: Robotics, Linear Control Systems, Mechatronics, Heat Transfer, Fluid Dynamics, Computational Analysis, Energy and Propulsion, Material Science, Computer and Network Security, Software Development, AutoCad

WORK EXPERIENCE

Full Stack Developer   **San Francisco, CA United States**
Mavrx   *January 2016 – Current*
- Developed a system to acquire and process satellite imagery of the entire globe, spanning to the early 2000s. Required the employment of distributed systems and asynchronous design
- Worked on the upscaling of an internal image processing system, which featured the deployment of dockerized containers on Google Cloud Engine and Amazon Web Services
- Created a web application used by the company to monitor the flow of data through various processes. The application was created using a combination of Python, reactJS, and PostgreSQL

Software Engineer   **San Francisco, CA United States**
RobotLAB   *September 2015 – December 2015*
- Developed an application to use a humanoid robot as an animated spokesperson for visual presentations
- Designed a GUI to create, save, and manage presentations for the above application
- Developed a customized web browser which can inject HTML and JavaScript events into existing web pages, allowing a robot to react to user actions within a web page
- Performed systems integration between a Microsoft Kinect and Aldebaran Nao using C#, Python, and JavaScript

DESIGN PROJECTS

Autonomous Turret
- Developed an autonomous turret capable of detecting a stationary or moving target, and launching a ball at the correct trajectory to intercept it
- Experimented with different materials, sensors, hardware, and software languages to create an optimal design within a reasonable budget
- Lead programmer for the turret's control system

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, C++, C#, Java, and MATLAB
    - Object Oriented Design, Data Structures, Design Patterns, Asynchronous Programming
- Development Tools: Docker, Amazon Web Services (AWS), and Google Cloud Platform
- Web Development PostgreSQL, ReactJS, HTML, CSS/Sass, django, and Tornado
    - Tools: Node, Browserify, Webpack, Babel
- Design Software: SolidWorks (Certified SolidWorks Associate) and Solid Edge
- Data Analysis: FEA, CFD, and data acquisition systems
- Familiar with ANSI Y14.5M drawing standards and GD&T