Chad William Becker

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Work Experience

- **Lockheed Martin Aeronautics Company** **Fort Worth, TX**
  - **Software Engineer** **July 2016-Present**
    - Integrating a deep learning algorithm for target recognition and adaptation into our Open Systems Architecture
  - **Project Engineer** **June 2015-June 2016**
    - Managing an internal research and development Open Radio Architecture project and liasing with suppliers
    - Coordinating with System Test and our customer to meet incentive fee goals of a major F-22 program
    - Writing system-level software delivery requests to meet the planned capability drops during development
    - Analyzing Flight Test data and assessing the performance of one of the newly enhanced F-22 capabilities
    - Developing a backlog management tool for program-wide use to prioritize, track, project, and manage the burndown of work to completion using Scaled Agile methods to be more proactive and less reactive during development. Working with Hardware, Software, System Test, and Flight Test teams to accomplish this.
    - Creating and maintaining a program risk health reporting tool using MATLAB that extracts pertinent risk metrics and generates plots for review by risk and program managers
    - Assisted in the cost estimation process for a new program and produced cost metrics for program directors
    - Implemented user stories to develop the organization's Agile wiki
- **Lockheed Martin Missiles and Fire Control** **Orlando, FL**
  - **Electrical Engineering Intern** **May-August 2014**
    - Developed self-proposed Java programs to assist with Production Support's failure analyses. The Java programs extract selected test failure data from test logs and utilize the JExcel API to generate spreadsheets that organize this data for the user. Created a GUI that allows the user to select files and generate the spreadsheets. The GUI presents the user with the history of their actions and any errors that have occurred. I drafted comprehensive documentation on the program's features, functionality, conditions, and operational steps.
- **Miller Integrated Power and Controls** **Chesapeake, VA**
  - **Engineering Intern** **July-August 2013**
    - Researched data sheets to select parts that meet project specifications, reviewed technical documents, organized parts lists in Excel, obtained price quotas, downloaded code to programmable logic controllers, and tested a control system on naval vessel Cape May
- **Swan Solar** **Virginia Beach, VA**
  - **Marketing Intern** **July-August 2013**
    - Helped establish their marketing campaign in a new locale by writing and publishing content to press releases, blogs, and social media websites. Strategized with management on an effective marketing plan per the area. I also learned about effective sales tactics.

Selected Projects

- **Personal Website**
  - Created a responsive, dynamic personal website from scratch using HTML5, CSS3, JavaScript, Bootstrap, jQuery, MySQL, and the Flask micro web framework. The website is hosted on Amazon Web Services.
- **Real-Time Room Occupancy Detection System**
  - Written in C and constructed using TI's MSP430 microcontroller LaunchPad and a PIR sensor. Room occupancy information is pushed to a central Amazon Web Services server and displayed via web and mobile clients.
- **Gmail Instant Messenger**
  - Built own version of Gmail instant messenger client using the Smack API in Java. Used the Scrum software development method throughout the project.

Education

- **University of Virginia, School of Engineering and Applied Science** **Charlottesville, VA**
  - **B.S. Electrical Engineering** and **Engineering Business Minor** **May 2015**
  - 3.894 GPA, Highest Distinction, Dean's List, and Intermediate Honors
  - Software courses: Embedded System Design (C), Embedded Computing Systems (C), Computer Networks (Java and C), Software Development Methods (Java), Introduction to Programming (Java and Python), Digital Signal and Image Processing (MATLAB)

Programming Languages, Libraries, Frameworks, and Technologies

- Java, Python, C, MATLAB, HTML5, CSS3, JavaScript, Bootstrap, jQuery, MySQL, Flask, Amazon Web Services