Chad William Becker

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EXPERIENCE

- **Lockheed Martin Aeronautics Company** **Fort Worth, TX**
  - **Software Engineer** **July 2016-Present**
    - Architecting and developing C++ services for the F-22 Open Systems Architecture rack system startup, application and module health reporting and recovery, and system time synchronization
    - Ensuring high quality code by following coding standards and reviewing code with Software Security
    - Wrote Ada and C++ middleware APIs between F-22 software applications and Linux to support other development teams
    - Acted as middleware liaison between our team and Boeing to integrate our software
    - Established the software development environment for the next largest F-22 modernization program
    - Participating in Agile ceremonies such as sprint planning, scrum meetings, demos, and retrospectives
  - **Project Engineer** **June 2015-June 2016**
    - Managed an internal research and development Open Radio Architecture project and collaborated with suppliers
    - Coordinated with System Test and the customer to meet a $9M incentive fee goal of a major F-22 program
    - Wrote system-level software delivery requests to meet the planned capability releases during development
    - Analyzed Flight Test data and assessed the performance of one of the newly enhanced F-22 capabilities
    - Developed a backlog management tool for program-wide use to prioritize, track, project, and manage the burndown of work to completion and be more proactive and less reactive during development
    - Created and maintained a program risk health reporting tool using MATLAB to assist program managers
- **Lockheed Martin Missiles and Fire Control** **Orlando, FL**
  - **Software Engineering Intern** **May-August 2014**
    - Developed a self-proposed Java program to assist Production Support's failure analyses. The Java program extracts selected test failure data from test logs and utilizes 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. 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, obtained price quotas, downloaded code to programmable logic controllers, and tested a control system on vessel Cape May

SELECTED PROJECTS

- **Cryptocurrency Value Notifier**
  - Developing a web app that notifies registered users via email when the value of a specified cryptocurrency changes significantly
- **Personal Website**
  - Created a responsive, dynamic personal website from scratch using HTML5, CSS3, JavaScript, Bootstrap, jQuery, MySQL, Python, and the Flask web framework. The website is hosted on Amazon Web Services.
- **Real-Time Room Occupancy Detection System**
  - Programmed a TI MSP430 microcontroller LaunchPad to determine room occupancy using a passive infrared sensor and push this information to an Amazon Web Services server for access by web and mobile clients

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 – 1yr (C), Computer Networks (Java/C), Software Development Methods (Java), Intro to Programming (Java/Python), Digital Signal & Image Processing (MATLAB)

TECHNICAL SOFTWARE SKILLS

- **Languages:** Java, C/C++, Python, Ada, HTML5, CSS3, SQL, MATLAB
- **Frameworks and Libraries:** Flask, Bootstrap, jQuery, JExcel
- **Operating Systems:** Windows, Red Hat Enterprise Linux
- **Tools:** Amazon Web Services, Eclipse, Git, Beyond Compare, VMware Workstation Player