

Chad William Becker

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EXPERIENCE

- **Lockheed Martin Aeronautics Company** **Fort Worth, TX**
July 2016-Present
 - **Software Engineer**
 - Leading my team through sprint planning, scrum meetings, demos, and retrospectives as Scrum Master
 - Architecting and developing application and module health reporting services in Java for the F-22
 - Wrote Ada and C++ middleware between F-22 software applications and Linux in support of our Open Systems Architecture. Packages include File Services, Timers, Semaphores, Mutexes, Sockets, and Memory Allocation.
 - Acting as middleware liaison between our team and Boeing to integrate our packages with their software
 - Ensuring high quality code by following coding standards and reviewing code with Software Security
 - Established the software development environment for the next largest F-22 modernization program
 - **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 risk and program managers
- **Lockheed Martin Missiles and Fire Control** **Orlando, FL**
May-August 2014
 - **Software Engineering Intern**
 - 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**
July-August 2013
 - **Engineering Intern**
 - 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

- **Mobile Personal Assistant Chat Bot**
 - Developing a chat bot by employing the Nexmo Voice API, Facebook's Wit.ai, Amazon's Polly, and Amazon Web Services
- **Personal Website and iOS Application**
 - 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.
 - Building an iOS app to view and manage my website's MySQL database.
- **Real-Time Room Occupancy Detection System**
 - Programmed a TI MSP430 microcontroller LaunchPad to determine room occupancy using a passive infrared sensor and to 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**
May 2015
 - **B.S. Electrical Engineering and Engineering Business Minor**
 - 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++, Ada, Python, HTML5, CSS3, JavaScript, 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