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MATTHEW G WEBER

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https://webermg.github.io/SimplePortfolio/

EMPLOYMENT

Process Engineer   **Boeing**   **Spring 2011 -- Present**

Airplane Configuration and Integration – Airport Compatibility
- Implemented Airport Compatibility tools for use by product development
- Tools focused on improving engineering productivity via automation
- Worked within agile process with continuous feature delivery
- Subversion source control, Visual Basic .NET in Visual Studio
- Created tutorials to aid new employees in onboarding

Integrated Simulation and Analysis
- Created a GUI for an Excel file to browse data within; eliminated the need to create full-fledged database - VBA.
- Contributed to effort to enable data analytics capabilities by identifying and categorizing isolated sources of data across the engineering organization

Engineering Information Delivery
- Created a calculator to convert between different color spaces within parameters of Boeing lighting design.   Calculator replaced manual calculations for 787 lighting scene development.
- Requirements Gathering
  - Defined new functionality and approved supplier code deliveries
  - Coordinated changes with downstream and upstream systems to ensure system fidelity
- Data Analysis and Reporting
  - Created a Java app that automated several processes of usage metrics collection and reporting. Reduced time to produce reports by 90%.
  - Created process of relating user profile data to usage data in order to identify potential areas of customer engagement
  - Created system data flow diagrams as part of effort to fully document system architecture
- System Testing Lead
  - Created testing processes for system and lead testing efforts.
  - Testing plan included general regression testing and focused testing for new features and bug fixes
  - Responsible for buying off on results

Engineer   **Northrop Grumman Shipbuilding**   **Spring 2009 – Winter 2011**
- Analyzed CVN 78 ship compartments for ambient noise level and made recommendations for out of spec compartments.
- Updated design booklet containing all noise and vibration design information for CVN 78..
- Conducted analysis of intermittent noise on compartments below deck and proposed treatments.

Engineer Associate   **Cessna Aircraft Company**   **Winter 2008 – Winter 2009**
- Served as an airframe design engineer

Mechanical Engineer   **Hines Hartman**   **Fall 2006 – Fall 2007**

- Served as an HVAC design engineer

UW Coding Boot Camp	**University of Washington**	**Fall 2020**
Data Structures and Algorithms I and II	**Stanford Online**	**2017-2018**
Nand2Tetris	**Coursera**	**2017-2018**
Louisville, KY	**University of Louisville**	**Winter 2005 – Spring 2006**

- M.S. in Mechanical Engineering, May 2006.

Lexington, KY	**University of Kentucky**	**Fall 2000 – Winter 2004**

- B.S. in Mechanical Engineering, December 2004.

TECHNICAL EXPERIENCE

Projects
- **Chord Identifier** HTML/CSS/Javascript
- **Weather Dashboard** HTML/CSS/Javascript

ADDITIONAL EXPERIENCE AND AWARDS

- **Engineer in Training (2004):** Passed Fundamentals of Engineering Exam.

Languages and Technologies
- C++; VB.NET; VBA; Java; C#; JavaScript; HTML; CSS; Bootstrap; JQuery
- Visual Studio; Eclipse; XCode; Excel