

# Charles D. Maddux

Charles.D.Maddux@Boeing.com  
Work: 610-591-1206

cd.maddux@att.net  
Cell: 916-849-2157

## Skills

Catia V5  
Boeing Stress Platforms (CSW / IAS)  
DaDT Tools (IDTAS / DTANAL)  
Enovia / REDARS / CASTLE / IPDM

Nastran / Patran / FEADMS  
Matlab / Simulink  
Microsoft Office Suite  
Advanced Excel, Visio Skills

## Work Experience

The Boeing Company, BDS Tukwila June 2018 to Present  
VC-25B Floors. Providing static analysis and design configuration support for forward and aft stairwell modifications for Presidential Aircraft.

The Boeing Company, Philadelphia Design Center August 2010 to June 2018  
E-8 Joint STARS. Support for Widespread Fatigue Damage assessment and Service Life Extension Program for 707 derivative wing structure using limited teardown data and accepted statistic methods. Report delivered on time and under budget, resulting in Air Force acceptance of plan to retain existing E-8 fleet over competitive replacement bids.  
CH-47/Canadian MHLH Aircraft Structural Integrity Management Program (ASIMP). Coordinated biennial update to Boeing support document for dynamic drivetrain components, highlighting contract compliance and providing on-time delivery of CDR document.  
Analysis Engineer. Enterprise support providing static, fatigue, and damage tolerance analysis for BCA programs, including 787-8, 787-9, and 777-9.  
777-9 Rudder. Responsible for complete skin panel analysis package, including full-height core, ramp, and joint/laminate static checks, during NRPD process using finite element (FEM) and hand analysis methods.  
787-8/-9 Fuselage Section 43. Performed complete stress analysis package for Broadband Antenna adapter plate including stress analysis and collaboration with groups across multiple disciplines, resulting in on-time release of parts and strength check notes.  
787-9 Fuselage Section 44/46. Oversight of partners Alenia and Boeing Russia (BRI) work packages to ensure complete analysis, product quality, and on-time delivery, resulting in schedule recovery and on-time release of vertical panel strength check notes.  
787-8 Empennage. Supported 787-8 Type Certification release document for Empennage damage tolerance, resulting in FAA approval. Supported 787 Empennage sustaining group for fleet support.

Naval Air Systems Command, Naval Air Warfare Center Aircraft Division. 2009  
Engineering Intern. Systems engineer in the Navy's Jet Engine Test Instrument program, working on development of off-aircraft engine test cell platforms. Collaborated with peer engineering groups to develop troubleshooting procedures and wiring diagrams for the Rolls Royce F402 test program set.

Volvo Automotive Dealerships.

1993 to 2007

Automotive technician and working shop foreman. Responsible for training apprentice technicians, building positive customer relations, and developing shop procedures, as well as working directly with factory engineers and technical specialists to develop detailed fault-tracing guidelines for diagnosis of engine performance and computer control systems failures.

## **Education**

Bachelor of Science, UC Davis, CA

2010

Aeronautical Engineering (ABET accredited). Tau Beta Pi.

GPA: 3.37

Boeing Certificate of Composites. Oregon Institute of Technology: Seattle, WA

2012

Design and manufacturing composite systems.

GPA: 4.0

## **Licensing and Certification**

FAA Licensed Pilot, Class 3 Medical

EIT # 135495, CA

FAA Part 107 sUAS Commercial Pilot