

DAVID RANDOLPH MARTIN II

Mechanical Engineer / Consultant

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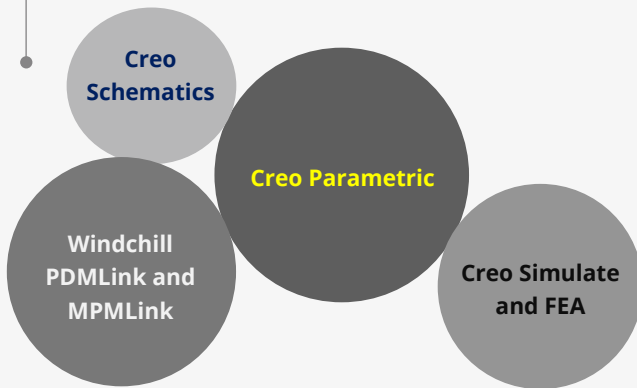
Expert in design, analysis, manufacturing, and routed systems using Creo Parametric and data management, change management, and configuration management using Windchill PDMLink.

EDUCATION

Massachusetts
Institute of
Technology
Cambridge, MA

Bachelor of Science in
Mechanical Engineering

PROFESSIONAL SKILL



BOOKS

[Top Down Design in Creo Parametric](#)

E-book available on Amazon.com

[Design Intent in Creo Parametric](#)

E-book available on Amazon.com

LEADERSHIP EXPERIENCE

Former Captain, United States Army Reserves

- Company Commander of over 100 soldiers.
- M1A1 Tank Platoon Leader and Detachment Officer in Charge (OIC) for over 50 Soldiers.
- Executive Officer, Regimental Headquarters Company.

EXPERIENCE

2017-present
Blue Origin
Renton, WA

Avionics Engineer

Perform cable harness design on New Shepard and New Glenn rockets using Creo Schematics and Creo Parametric. Create and update wiring diagrams, 3D cable routing, flat harnesses, 2D production drawings, and 3D installation drawings. Maintain Creo Schematics Central Catalog.

2014-2017
Amazon Prime Air
Seattle, WA

Senior Mechanical Design Engineer

Responsible for top level assembly design, wiring schematics, and cable harness design in unmanned aerial vehicles for delivery of packages in 30 minutes or less. Performed Change Management, BOM Management, and Configuration Management for vehicles in Windchill. Served as CAD Administrator and Windchill Administrator. Supported manufacturing and prototype development.

2013-2014
Amazon
Sunnyvale, CA

Senior MCAD Application Specialist

Managed Creo Parametric for over 250 users in multiple locations throughout the United States and Asia on all Amazon hardware products including Kindle tablets and readers, Fire TV, and the Fire Phone. Developed design standards and processes, and provided training and user support.

2010-2013
PTC
Los Angeles, CA

Senior Learning Consultant

Developed and delivered training and consulting for companies such as GE Healthcare, Cummins, and Foxconn in their implementation of Creo Parametric and Windchill PDMLink.

2006-2010
NxRev, Inc.
Santa Clara, CA

Application Engineer

Provided consulting, training, and mentoring in Pro/ENGINEER for Mechanical Computer Aided Engineering and Windchill for Product Lifecycle Management (PLM).

2004-2006
TriStar
Newport Beach, CA

Application Engineer

Provided consulting and training to companies to maximize their implementation and utilization of Pro/ENGINEER, Mechanica, and Intralink.

2003-2004
Torgon Industries
San Diego, CA

Pro/Engineer Consultant and Instructor

Pro/ENGINEER Consultant and Instructor.

2001-2003
PTC
El Segundo, CA

Education Specialist

Taught classes in design using Pro/ENGINEER. Developed courseware and training materials.

1997-1999
The Boeing Company
Seal Beach, CA

Mechanical Designer Engineer

Developed conceptual configurations, CAD models, and production drawings using I-DEAS and Unigraphics for satellites including GPS.

1993-1997
Lockheed Martin Corporation
Orlando, FL

Structural Analyst and Test Engineer

Performed Finite Element Analysis (FEA) using I-DEAS and MSC/NASTRAN on Programs included AH-64A TADS, F-16 LANTIRN, and ATARS Minipod. Test engineer on classified programs.

Additional

Blogger for PTC <https://www.ptc.com/en/blogs>

Personal Website: www.creowindchill.com