

William W. Stuck II

Phone: (615) 509-3503

Email: Bill@wws2.net

PROFESSIONAL EXPERIENCE:

Consulting / Dassault Systèmes – Nashville, TN (Remote) 2024 - Current

Wiring Harness Design Solutions Architect

- Development of Harness Design Use Case Demonstrations and Training
- Setup and testing of 3DEXPERIENCE 2023 Harness Design Testing Environment
- Harness design and layout per SAE-AS50881 Specification Wiring, Aerospace Vehicle

Lockheed Martin - Space, Huntsville, AL (Remote) 2019 – RIF 7/2024

Sr Electrical Design Engineer - Harness Design Solutions Architect

- Primary Liaison Engineer for prototype designs and manufacturing support of new concept designs
- Primary Engineer for new part selection related to box wiring, harness wiring and cable design
- 3D modeling and 3D printing of mechanical and electrical test parts for advanced prototype designs
- Lead Integration and Harness Designer for (THAAD) Terminal High Altitude Area Defense Program
- Harness design and layout per SAE-AS50881 Specification Wiring, Aerospace Vehicle
- Project Management of engineering designs using (PLM) Product Lifecycle Management software

Design Ability Inc. & LLC, Brentwood, TN 2012 – 2019

Mechanical / Electrical Design Engineer / Prototype Fabricator

- Design state of the art joystick controlled 4x4 side-by-side vehicles for individuals with disabilities
- Design control automation using motor controls, feedback loops, gear motors and actuators
- Design heads-up display / control systems for full vehicle automation with single joystick interface
- Design and prototype of advance system integration harnesses used in off-road vehicles
- Design and prototype of micro-controller and relay logic systems using open-source technologies
- 3D design and layout of parts and assemblies used for 2D drawings and instruction sheets
- Project Management and Project Development of multi-use adaptive recreational vehicles
- Oversee build schedules and procurement schedules for prototype design builds
- Prototype and fabrication of adaptive recreational vehicles for individuals with disabilities
- Installation of software and firmware updates to support various control units
- Roboteq Motion Control Solutions Partner for custom motion control design applications

Sikorsky Aircraft, CT – AL – NY 2005 – 2012

Staff Electrical Design Engineer

- Lead Component Integration and Harness Designer for advanced Military Helicopter Modifications
- Harness design and layout per Mil-W-5088 Military Specification Wiring, Aerospace Vehicle
- Liaison Engineer responsible for design and shop support during helicopter manufacturing process
- Prototype development testing and documentation for Catia V5 productivity tool enhancements
- 3D Harness Design using Catia V5 (EHI & EWR) Harness Installation & Wire Routing software
- Complete Harness Tooling Design using Catia V5 (EHF) Electrical Harness Flattening software
- Catia V5 Trainer for Harness Design and Harness Installation, both In-house and Contract offices
- Lead on Sikorsky's ACE LEAN / 6S Charter Team for Catia V5 Machine Performance and upgrades
- Project Management of engineering design work using MatrixOne and Enovia PDM software

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PROFESSIONAL EXPERIENCE: Continued

Country Life Tech, Troy, MO

2000 - 2005

Computer Network Manager / Owner

- Develop Windows 2003 Exchange Server and created proxy-internet access, FTP/Web Sites
- Set-up and management of VPN/Dial-up connections for multiple office and user locations
- Set-up, management, and administration multi-site AutoCAD system for design and 2D drawings
- Set-up, management, and administration of multi-site AutoCAD large format plotting systems

SFRN, West Palm Beach, FL

1995 - 2000

GIS / Computer Manager

- Design, develop, and operate multi-staged GIS projects and standardized software training
- Maintain relationships between Engineers and Clients during project development
- Create complete BID Specs for computer related projects
- Project Management of computer hardware and software projects
- Set-up and development of AutoCAD system for design and 2D drawings

Sikorsky Aircraft, Stratford, CT

1991 - 1995

Manufacturing Engineer

- Development and Implantation of prototype laser alignment tool for advanced aircraft manufacturing
- Harness Installation Design per Mil-W-5088 Military Specification Wiring, Aerospace Vehicle
- Liaison between the Design Engineering and Manufacturing for US Military Helicopter builds
- Wiring harness fabrication, manufacturing, and buildup instructions of US Military Helicopters
- Avionic box layout and installation instructions for US Military Helicopters
- Wiring harness layout and installation instructions for US Military Helicopters

VOLUNTEER ACTIVITIES AND PROJECTS

Over the last 15+ years I have used my skills volunteering thousands of hours designing, modifying, and fabricating adaptive items for individuals with severe disabilities. Anything from simple toys for kids to very labor-intensive adaptive joystick-controlled drive-by-wire 4x4 recreational vehicles. The satisfaction of helping individuals accomplish things otherwise not achievable is fun and rewarding. The smiles of joy and appreciation from the individuals and their families always make the effort worth the time. Some of the adaptive projects can be seen on the Design Ability Inc. – 501c3 Nonprofit website and YouTube channel at www.designabilityinc.com.

EDUCATION:

B.S. Business - Barry University, Miami, FL

A.S. Electrical Engineering - GNHS College, New Haven, CT

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SOFTWARE SKILLS:

CAD / 3D Software:

- AutoCAD – Installation, Setup, Configuration and Admin – Advanced Usage
- Autodesk Inventor – 3D Modeling, 2D Drawing – General Usage
- Autodesk Fusion 360 – 3D Modeling – General Usage
- Catia V5 – 3D Modeling, 3D Harness Design, 2D Drawing – Configuration and Advanced Usage
- Catia V5 – 3D (EHI & EWR) Harness Install Design – Configuration and Advanced Usage
- Catia V5 – 3D/2D (EHF) Electrical Harness Flattening – Configuration and Advanced Usage
- 3DEXPERIENCE Electrical 3D Part Design, Electrical 3D Design – Configuration and Advanced Usage
- 3DEXPERIENCE Electrical Harness Design and Routing, – Configuration and Advanced Usage
- 3DEXPERIENCE Electrical Manufacturing Preparation – Configuration and Advanced Usage
- 3DEXPERIENCE Data Setup, Part Design, Assembly Design – Configuration and Advanced Usage
- Creo 7 – 3D Modeling – Basic Usage
- Creo 7 – 2D Drawing – General Usage
- SolidWorks – 3D Modeling, 2D Drawing – General Usage
- TinkerCAD – 3D Modeling – Advanced Usage

PLM (Product Lifecycle Management) Software:

- EPDM – Engineering PLM Software – Supervisory and General Usage
- MatrixOne – Engineering PLM Software – Supervisory and General Usage
- Windchill – Engineering PLM Software – Supervisory and General Usage
- IMPACT II – Sikorsky Aircraft's Engineering Software – Supervisory and General Usage

Automation Software:

- Roborun+ PC Utility v3.0 – RoboteQ Controller Software – Configuration and Advanced Usage

Microsoft Office:

- Word, Excel, PowerPoint, Access – Advanced Usage

MECHANICAL AND ELECTRICAL SKILLS:

BUILD AND FABRICATION:

- Electrical Fabrication of Harnesses, Panel Boxes, Control Units, Etc.
- Motion Control of Open and Closed Loop Feedback Actuators, Motors, Servos, Etc.
- RC (Remote Control) System Fabrication of Steering, Braking and Power Systems, Etc.
- Flat Metal Fabrication of Brackets, Spacers, Controls, Tools, Etc.
- Flat Metal Welding of Frames, Brackets, Levers, Supports, Etc.
- Sheet Metal Fabrication of Panels, Boxes, Covers, Floors, Etc.
- Solid Metal Table-Top Milling of Shims, Plates, Brackets, Widgets, Tooling Jigs, Etc.
- 3D printing of Spacers, Tools, Covers, Levers, Tooling Jigs, Gadgets, Etc.
- Plastic and Fiberglass Fabrication of Covers, Panels, Body Panels, Etc.
- Wood Fabrication of Supports, Spacers, Covers, Frames, Walls, Etc.