

William W. Stuck II

Brentwood, TN | 615-509-3503 | bill@wws2.net | Website: www.wws2.net | Nonprofit Website: www.designabilityinc.com

Experience

Design Ability Inc. and LLC | Brentwood, TN

2012 – Current

Electrical / Mechanical Design Engineer

- Design, validation, and fabrication of
 - State-of-the-art joystick-controlled side-by-side vehicles for individuals with disabilities
 - Control automation using motor controls, feedback loops, gear motors, and actuators
 - Heads-up display / control systems for full vehicle automation with single joystick interface
 - Unmanned Ground Vehicle (UGV) platforms and Full-size (RC) Remote Control golf carts
 - Automated cells with Fanuc Robots, Allen-Bradley PLCs, Allen Bradley, Siemens Unified and AIG OI HMIs
 - Automated and mechanical 3D Machine design and 3D robot end of arm tooling component design
- Creation of 3D designs and layouts for parts and assemblies used in 2D drawings and instruction sheets
- Design and creation of 3D prints / parts used in prototype design and fabrication
- Installation of software and firmware updates to support various PLC and motor control units
- Programming of PLCs and troubleshooting using Rockwell Automation software with Allen-Bradley PLC hardware
- Layout design and programming of HMI displays using Rockwell Automation software or Siemens TIA software
- Setup and programming of Fanuc robots for general material handling and tooling
- Roboteq Motion Control Solutions Partner for custom motion control design applications
- Adaptive projects can be seen on the Design Ability Inc. – Nonprofit website at www.designabilityinc.com

Dassault Systèmes | Nashville, TN (Remote)

2024 - 2025

Wiring Harness Design 3D Experience Solutions Architect

- Training, development, and implementation of
 - Harness design training for best practice use case demonstrations and training
 - User training for best practice design and data management
 - Custom 3D and 2D electrical parts and symbols
- Setup, creation, validation, and testing of
 - Data configuration, data modification, and related wiring schematics
 - Processes for 3D Experience 3D harness design environments
 - 3D Experience 2D System wiring design environment
- Design of electrical harnesses and layouts per SAE-AS50881 Specification Wiring, Aerospace Vehicle

Lockheed Martin Space | Huntsville, AL (Remote)

2019 – 2024

Sr Electrical Design Engineer

- Lead Electrical Engineer responsible for
 - Part criteria and selection related to box wiring, harness wiring, and cable design
 - Developing wiring schematics related to box wiring, harness wiring, and cable design
- Lead Liaison Engineer responsible for prototype harnesses and wiring to support manufacturing of new products
- Created 3D models and 3D prints of mechanical and electrical test parts used in advanced prototype design testing
- Managed projects for electrical harness designs using (PLM) Product Lifecycle Management software
- Design of electrical harnesses and layouts per SAE-AS50881 Specification Wiring, Aerospace Vehicle

Electrolux | Springfield, TN

2018 – 2019

Electrical Harness Engineer

- Lead Electrical 3D Harness Design Engineer responsible for new automated product design
- Automation of appliance wiring schematic, wiring layout and wiring harness design
- Catia V5 (SME) Subject Matter Expert for new 3D product designs and configurations

Schneider Electric | Franklin, TN

2014 – 2018

Configuration Engineer

- Development and maintenance of product configurator logic for automatic drawing generation output
- Troubleshooting and testing of automation design engineering drawing specifications
- Improved quality of engineering designs and data generated by product configurator for final approval

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Software Skills

CAD / 3D Software:

- 3D Experience / Catia V6
 - Data Setup, Admin Setting Functions
 - 2D Schematics, 2D Wiring Diagrams, Logical Harnesses Collectors, Logical to Physical design process
 - 3D Electrical Harness Design, 3D Routing, 3D Electrical Part Design
 - 3D Electrical Manufacturing Preparation, 3D Flattening and related 2D formboard drawing creation
 - 3D Installation and related 2D Drawings.
- AutoCAD – 2D Drawing, Installation, Setup, Configuration and Admin
- AutoCAD Electrical (2026) – 2D Drawing, 2D Schematics, 2D Wiring Diagrams, 2D Symbols, 2D Libraries
- Autodesk Inventor (Demo) – 3D Modeling
- Autodesk Fusion 360 (Demo) – 3D Modeling
- Catia V5
 - 3D Modeling, 3D Harness Design, 2D Drawing
 - 3D (EHI & EWR) Harness Install Design
 - 3D/2D (EHF) Electrical Harness Flattening
 - 2D Schematics, 2D Wiring Diagrams
- Creo 7 – 3D Modeling, 2D Drawing, 2D Schematics, 2D Wiring Diagrams,
- SolidWorks – 3D Modeling, 2D Drawing
- TinkerCAD – 3D Modeling / 3D Printing

PLM (Product Lifecycle Management) Software:

- 3D Experience
- ENOVIA
- Windchill

Automation, Robotics and PLC Software:

- Roborun+ PC Utility v3.0 – RoboteQ Controller Software, used in Unmanned Ground Vehicle (UGV) platforms
- Rockwell Automation – Studio 5000 Logix Designer, RSLogix 500, FactoryTalk View (ME), RSLinx
- Siemens TIA – Totally Integrated Automation software, TIA Portal V20, WinCC, SIMATIC STEP 7 Pro, Unified HMI Pro
- Fanuc robot controller setup, Fanuc robot controller programming

Microsoft Office:

- Word, Excel, PowerPoint, Access

Miscellaneous Software:

- Various company specific / proprietary imaging, data management, CAD, GIS, and related software

Certifications

3D Experience | Associate – Dassault Systèmes

- Electrical 3D Systems Designer, Schematic Designer, Electrical 3D Manufacturing Engineer, 3D Mechanical Designer

Rockwell Automation / Allen-Bradley | Programming and Troubleshooting – Motlow State Community College

- Studio 5000 Logix Designer, FactoryTalk View (ME), RSLinx

Fanuc Robot | Handling Tool Operation and Programming – Fanuc / Motlow State Community College

- Fanuc robot controller settings, Fanuc robot controller programming

Education

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

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