

BACKGROUND

- **Sr. electromechanical designer. Product design and development for parts and systems in aerospace, medical, solar, transportation, MIL/DOD, food service, processing, medical equipment.** Concept / prototype design, reverse engineering, and R&D of legacy and new product packages. Equipment and electronics packaging, specialty equipment, tool design, jigs and fixtures, task robotics and MEP. Setup and run Bridgeport's, lathes, arbors, brake, shear, operate CNC, generate G-Code. Use Autodesk Design Suite, Inventor, Vault.
- **Sr. designer, AEC generalist. Design, and design drafting, layouts of equipment and piping for restaurant, kitchens, equipment & HVAC, processing, and maintenance facilities, , layouts and piping for O&G, water, foods processing.** Familiar with AWS, API, ASTM, AISC, ANSI, ASME, B31.3, NFPA, UEC, UBC, and ADA standards. Design & detail steel, frame weldments, equipment skids, elevated platforms, pipe/equipment supports, and more. Also, **Landscape and hardscape design, water features, wrought iron and more.** Use Autodesk Construction Suite, Revit, AutoCAD, export to Navisworks. NOT Dynamo literate, willing to learn.

EXPERIENCE

02/16-Present, **Sr. Mechanical Design Engineer, Fuel Solutions Inc,** Culver City, CA

Design and detail ground vehicle fueling facilities, equipment, storage and dispensing including B31.3 piping for diesel, gasoline, LG, and CNG fuel, Collaborate remotely with all disciplines, owners and PM's for nation-wide projects. Steel and detailing to AISI & ASME standards. AEC generalist, BIM/VDC manager. Work remotely since 2017

05/14-10/15: Sr. Mechanical Designer, Pepcon Systems, Inc., Cedar City, UT

Design equipment skids and layout general arrangements of electrolytic packages ASME/IPS. Create/modify and detail assembly models, pressure vessels, motors, pumps, valves, instruments, connectors. Collaborate w/ PM and OEM's.

01/13-05/14: Mechanical Designer, Planetary Power, Inc., Carlsbad, CA

Product development and structural mechanical design of a solar to electrical conversion unit focusing on mobility and [classified] power conversion. Design/detail and produce production packages for fabrication, parts/assemblies, create/modify parametric models, produce production drawings, create renderings and presentations. Work remotely with Inventor & Vault.

05/12-11/12: Mechanical Designer, McKenna Engineering, Carson, CA

Create/modify and detail for production, assembly models, ASME GA's, typically skid package equipment (pressure vessels, motors, pumps, valves, piping, connectors), piping and structural for desalinization, gas compression/cooling, chilling. Create/modify P&ID, and site plans. Support sales, design engineers, production/welders. Design/detail sanitary mobile and skid packages for foods/cosmetics. Create from scratch and modify structural weldments, piping and electrical routing.

02/10- 08/10: Mechanical Designer, Tibban Manufacturing, Victorville, CA

Design new and reverse engineer to revise existing centrifugal pumps used in oilfield applications. Create 3D assembly models and detail drawings for production. Create performance curve data sheets. Work Remotely.

02/08- 10/09: CAD Tech., City of LA (LAX, Ontario, Van Nuys Airports)

Mechanical, electrical, and civil CADD for security/IT infrastructure upgrades with focus on ACAMS and CCTV within LAX, Ontario and Van Nuys facilities. Site survey and document asbuilts, model facility wide F.O. upgrade proposals and create presentations focusing on project areas, new equipment proposals and timelines including modeling building sections, comm rooms, public and security access points, including detailing all related IT electrical/mechanical systems locations, equipment and wiring schematics, and PA system.

04/07- 02/08: Technical Illustrator, CDG, Boeing, Cypress, CA

Create/modify 727, 747, 767 IPC detailing for mechanical, electrical, plumbing (hydraulic and water), power and structure on passenger and cargo aircraft. Training completed for Boeing ASARS applications and introduced and implemented image-to-artwork conversion techniques that increased the department's overall productivity. MRP/PDM data entry.

SOFTWARE

5 years working remotely with Autodesk Suites, BIM360, Vault, Teams, Dropbox, WebEx, Zoom, basic MS Office and other collaborative apps. Highly proficient with Revit 2020+, Inventor, SolidWorks, and AutoCAD. Comprehensive with Adobe CS, Corel, KCLCAD, HTML editors, and rendering with 3DS.

EDUCATION

1983 – Present, CADD courses completed include Mechanical Desktop, Inventor, SolidWorks, Revit, Adobe CS, AutoCAD

1983, Mechanical Design and Drafting Technology; Bullard Havens Tech Bridgeport, CT - Proficient with ANSI Y14.5 drafting / detailing standards; some AIA drafting standards.

