

RELEVANT EXPERIENCE: ()

- CAD Design Engineering** (Mechanical, Electrical, Electronics, Control, Animation)
- Electronics Engineer** (Wiring, Circuits, PLC, Panels, PCB, Discrete, Power, Control, Test)
- Test Engineer - Technician** (Instrumentation, Metrology, EMI/EMC, RF/Microwave)
- Industrial Engineer** (Plant Layout, MMI, Flow Design, Ergonomics, Machine & Process)
- Manufacturing Engineer** (Process, Equipment, PLC, Control, Automation Process)
- Maintenance Engineer** (Ops, Planning, Logistics, PM, CMMS, Bldgs, Equip, Process)
- Management** (Union, NonUnion, Planning, Hire/Fire, Proposals, Presentations, Sales)
- Broadcast - RF - Infrastructure** (FCC, Towers, Transmission, Microwave / Linking)
- Technology-IT-Networking** (Network Integration, Infrastructure, Distributed Control)
- Science - Biomedical** (Integral development partner with PHD's/Scientists to refine & invent)



2020 pic

SR LEVEL JOB FUNCTIONS "ROUTINELY" PERFORMED:

- CAD Design Engineering** (Facility, Mechanical, Electrical, Electronics, Control, Animation)
- Electronics Engineer** (Wiring, Circuits, PLC, Panels, PCB, Discrete, Power, Control, Test, Sym.)
- Test Engineer - Technician** (Instrumentation, Metrology, EMI/EMC, RF/Microwave, Automation)
- Industrial Engineer** (Plant Layout, MMI, Flow Design, Ergonomics, Machine & Process)
- Manufacturing Engineer** (Process, Equipment, PLC, Control, Automation Process)
- Maintenance Engineer** (Ops, Planning, Logistics, PM, Min/Max Stock, Bldgs, Equip, Process)
- Management** (Union, NonUnion, Planning, Hire/Fire, Proposals, Presentations, Sales)
- Science - Biomedical** (Integral development partner with PHD's/Scientists to refine & invent – methods, process, products)

PRODUCT/ PROCESS / EQUIPMENT

ENGINEERING & OFFICE SOFTWARE EXPERIENCE:

Office Applications (MS Office Suite / Visio, Adobe Suite / Dreamweaver, SAP, PLM, Web Development, Networking, IT, PC stuff)
CAD Software (**MECH** - SolidWorks, Solid Edge, ProE / Creo, Inventor / ACAD), (**PLC/HMI** – DirectSoft, Allen-Bradley, Mitsubishi, Keyence, Siemens, etc...), (**SCADA** – Intellution, Genesis, Wonderware, etc...), (**PCB / EDA** - PADS, Altium, ORCAD, WinBoard/WinDraft, Elect.Workbench-EDA, Spice)

EMPLOYMENT HISTORY

PLUG POWER / UNITED HYDROGEN, INC. (Charleston, TN)

Sr Plant Engineer

2019 – 2021

TYPICAL JOB FUNCTIONS: Hands On - all engineering functions, electrical / mechanical / process / network / control, at a Liquid Hydrogen Mfg Plant. Cryogenic processing of Hydrogen Gas to Liquid State, HMI / PLC / Data w/Allen Bradley / Rockwell high level software. Maintenance / Repair / Data trending, programming.

LUMAZON PRODUCT DEVELOPMENT, INC. (Rockwood, TN)

Product Development Engineer 2000 – 2019

TYPICAL JOB FUNCTIONS: Contract Engineer Generalist, acting as a Project Engineer to diverse Industries and Manufacturing Companies. Using advanced Sr Level ElectroMechanical, Electrical, Electronics, Control and Industrial Engineering experience to design new equipment and processes, make changes to existing manufacturing and product offerings. Contribute as a Product Development Engineer on new products. Contribute by making presentation and proposals within corporate teams, via initial specs and drawings, animations within a CAD environment, then complete Drawing Package with Mfg Instructions, BOM's, Sources,. Following to completion, driving project schedules and resources. HANDS ON ENGINEERING on multiple simultaneous projects.

SAMPLE LIST OF COMPANIES SERVED at LPD, Corp.

Siemens Automation Div. (Johnson City), Siemens Molecular Imaging (Knoxville), ORTEC/Amatek (Oak Ridge), Fisher Scientific Rockwood), Advanced Catalyst Systems (Maryville), Keisler Engineering (Rockford), Uster Technologies (Knoxville), Thomas Kinkade Co. (Morgan Hill), HERMCO Engineering (San Marcos), NOVA Controls (Wattsonville), United Cutlery (Sevierville)...

EXTENDED HISTORY

BC TECH

Director of Engineering 1999-1999

GUIDANT ADVANCED CARDIOVASCULAR SYSTEMS

Sr Equipment Engineer 1996-1999

BOSCH AUTOMATION PRODUCTS

Sr Product Design Engineer 1995-1996

PERPETUAL MACHINE

R&D Engineer / Supervisor 1994-1995

TAMARACK SCIENTIFIC

Sr Project Engineer 1992-1993

AUTONOMOUS ROBOTICS

Chief Engineer 1989-1992

CERTITECH LABORATORIES

Chief Engineer 1988-1989

GENERAL DYNAMICS

Sr Mfg Engineer / Supervisor 1984-1988

HYLINE ELECTRONICS

Ops Mgr / Chief Engineer 1979-1984

CENTURY III ELECTRONICS

Mfg & Test Eng'g Supervisor 1983-1983

AMERICAN ELECTRONICS

Lab Supervisor / Engineer 1977-1979

CUSTOM POWER CALIFORNIA.

QC & Sr Engineering Tech 1972-1977

GENERAL AUTOMATION

Elect. Assy & Test Technician 1970-1972

EDUCATION / LICENSE / SPECIALIZED TRAINING

EDUCATION: Savanna High, Anaheim CA, 1970

Riverside City College CA, 1977 (digital math & microprocessor)

American International University "Pasadena" CA, BSEE 1981 (non DETC or ABET)

Realty Institute 1992 – Broker Graduate

LICENSE: Electrical Contractors License-CA, 1993 (#670026)

FCC/General Radiotelephone Operators License 1979 (#PG-11-10082/lifetime)

General Class 1968 (WA6GOQ), Extra Class 1997(AD6CI), RE License-1991

DELEGATE: National Conference of Standards Labs – Hyline Electronics Corp.

SECURITY CLEARANCE: Confidential - General Dynamics

TRAINING: ROBOTICS Intelledex, Cognex, Hughes LASER: ESI, Quantrad, Universal

HIGH VACUUM: Sputter, Evaporative, Magnetron, E-Beam, Cryo & Turbo Vacuum Systems

INSTRUMENTATION: LabView, Allan-Bradly, Fluke, HP, ATE, Tektronix/Agilent, etc...

RADIATION SAFETY: General Dynamics, Guidant, Perpetual Machine, Siemens

QUALITY SYSTEMS: (SPC) statistical process control, (TQM) Taguchi Quality Methods, (CELLULAR) Manufacturing, (FDA/GMP)

FAILURE DIAGNOSIS: HiRel Labs, FMA (Failure Modes Analysis), FMEA, Statistical Analysis, etc...

MANAGEMENT / LAW: Century III Electronics, General Dynamics, (AAP) affirmative action, union / non-union law

SOFTWARE: CAD DESIGN – SolidWorks, Inventor, ProE/Creo, SolidEdge, AutoCAD, FEA Cosmos, DesignSpace, LabVIEW

PLC/MMI - Allen-Bradley, Mitsubishi, Keyence, Siemens, etc... SCADA – Intellution, Genesis, Wonderware, etc...

PCB - Elect. Workbench-EDA Spice, WinBoard, Altium, Pads, Orcad

BUSINESS – SAP, PLM, MS Office, Visio, etc... GRAPHICS - Corel Draw, PhotoShop, Illustrator, etc... WEB – Adobe Dreamweaver

QUICK VIEW: HANDS ON – Senior Engineer, Designer, Product, Process & Manufacturing Engineering. Specialist in Mechanics, Electrical, Electronics, Networking, Instrumentation & Control. Qualified & Experienced Team Manager, Direct Supervision, Training of Engineers & Skilled "Union & Non-Union" personel, in Manufacturing & Process Operations. Customer Negotiations & Sales of specialized technical products. Product Development from "concept to production". Extensive Experience in Factory Planned Maintenance & Plant Operations / Planning, Sustaining, Scheduling, Upgrade. Quality, Compliance, Regulatory Enforcement. Industry Experience in Consumer, Industrial, Biomedical, Aerospace, Military – Product, Process, Equipment/Machine engineering. Corporate level business planning, management, accounting & strategy.

