

Nick Barrett

RESUME

DATE: 05/01/23

No Limits, Only Multiple Paths - Nick Barrett (865)250-6718
TEAM BUILDER
MENTOR
(Hands On) **ENGINEERING MANAGER**



NICK BARRETT www.nickbarrett.com & www.engineeranything.com
(865)250-6718

420 W. ROCKWOOD ST
ROCKWOOD, TN 37854

RELEVANT EXPERIENCE:

CAD Design Engineering (Mechanical, Structural, Electrical, Electronics, Control, Animation)
Electronics Engineer (Wiring, Circuits, PLC, Panels, PCB, Discrete, Power, Control, Test)
Test Engineer - Technician (Instrumentation, Metrology, EMI/EMC, Power DC/RF/MW)
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 (ERP, MES, Acct'g, Labor Union/NonUnion, Hire/Fire, Propose/Present/Sell)
Broadcast - RF - Infrastructure (FCC, Licensing Towers, RF, Microwave / Linking)
Technology-IT-Networking (Network, Security, Integration, Infrastructure, DCS, API)
Science - Biomedical (Product Development, Quality, Compliance, Validation, Process design)



ENGINEERING & OFFICE SOFTWARE EXPERIENCE:

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

EMPLOYMENT HISTORY

HEUBACH CORP.

Chief Engineer Oct 14 2021 - Current

Multi Corporations Operations Development - Facility, Mechanical, Electrical, Electronics, Control, Network, ERP/MES/CMMS/API, etc... Electrical / Electronics Engineering - Training Machine/Facilities Maintenance Personnel in Support of Equipment Installations, Wiring, Plumbing, Operation, Test/Repair, Tooling, etc... Test Engineer, Instrumentation, Automation, Circuits, PLC, Panels, PCB, Discrete, Power, Control, Networks, PC's Industrial Engineer - Plant Layout, MMI, Flow Design, Ergonomics, Machine & Process Manufacturing Engineer - Process, Equipment, PLC, Control, Automation Process, Floor/Facilities Planning Maintenance Engineer - Ops, Planning, Logistics, PM, Min/Max Stock, Buildings / Facilities, Equip, Process Engineering Staff/Contractors, Coordinate & Oversee all Facilities Functions, Planning. Corp/Office/Engineering Document Standards, Server, Data Configuration, Backups, Rev Control. Science - Biomedical, establish manufacturing/production operations, Recover/Remake lost CAD Engineering Documentation, stabilize Quality systems, determine Product Classification, FDA ISO 13485 validation, certification, GMP, methods, process, products.

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

Sr Plant Engineer July 2019 - Aug 2021

JOB FUNCTIONS: Critical Systems hand off in Contractor Hard Stop transition Engineering, On Site Principal Engineer, Hands On; all engineering functions, electrical, mechanical, sensor, process, network/network security, DCS oversight, control systems edits, change and documentation, at a Liquid Hydrogen Mfg Plant. Cryogenic processing of Hydrogen Gas to Liquid State, HMI, PLC, Historian Data w/Allen Bradley/Rockwell high level software. Driving Maintenance, Repair, Data trending, as Change agent, promoting transitions to MES, CMMS, integrating Real Time Production Portals, ERP, Corp expansion active participant.

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 Electro-Mechanical, 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
GUIDANT ADVANCED CARDIOVASCULAR SYSTEMS
BOSCH AUTOMATION PRODUCTS
PERPETUAL MACHINE
TAMARACK SCIENTIFIC
AUTONOMOUS ROBOTICS
CERTITECH LABORATORIES
GENERAL DYNAMICS
HYLINE ELECTRONICS
CENTURY III ELECTRONICS
AMERICAN ELECTRONICS
CUSTOM POWER CALIFORNIA.
GENERAL AUTOMATION



Director of Engineering	1999-1999
Sr Equipment Engineer	1996-1999
Sr Product Design Engineer	1995-1996
R&D Engineer / Supervisor	1994-1995
Sr Project Engineer	1992-1993
Chief Engineer	1989-1992
Chief Engineer	1988-1989
Sr Mfg Engineer / Supervisor	1984-1988
Ops Mgr / Chief Engineer	1979-1984
Mfg & Test Eng'g Supervisor	1983-1983
Lab Supervisor / Engineer	1977-1979
QC & Sr Engineering Tech	1972-1977
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 – ERP/MES/CMMS, SAP, PLM, MS Office, Visio, etc... **GRAPHICS** - Corel Draw, Adobe Software Suite(Web/Graphics/Video)



My profile; best described as **“Hands On”**, **Sr Manufacturing/Engineering Leader**, with advanced Mfg'g Skills and Corporate Level Vision, Macro and Global Scale, encompassing wide ranging technologies and sciences. Hands on at every level, down to Micro Detail of all things; in **Plant Operations**, Instruments and Controls, Data Collection, Networks, Network Security, Servers, Technology Integration of Process / Quality / Document Control.

My website www.engineeranything.com you can see additional links and reference to my history and background.

