



Clint Hanks

ELECTRICAL ENGINEER

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Details

Driving license
Full

Nationality
American

Place of birth
San Antonio

Profile

Energetic Electrical Engineer with nine years of experience in the production design of microprocessors for global navigation systems in the Aerospace Industry. Experience with Eagle, PADS and ORCAD, PADS, and Eagle. Involved in the design of 200+ specialized PCBs in the last 18 months. Holds a Ph.D. in Signal Process Electronics.

Employment History

Electrical Engineer, Manow Industries, Jackson

January 2018 — July 2020

Overhauled machine arrangements across various departments to improve efficiency by 38% in 30 days

- Design, maintain and improve electrical systems, components, facilities and instruments for domestic, commercial or industrial purposes
- Use computer-assisted design and various engineering software and equipment to perform engineering duties
- Discuss project scope, progress, and challenges with Engineering Manager
- Ensure the installation and operating mechanics of circuitry and electrical components conform to client specification
- Prepare technical spec lists and schematics for PCB boards, circuitry and high voltage systems electrical systems specifications, technical drawings or topographical maps
- Establish installation and maintenance standards by performing complex calculations
- Ensure compliance with industry codes and regulations by directing and coordinating the installation, manufacturing, maintenance, troubleshooting, testing and repair of electrical systems or components
- Write reports and compile data sets regarding current and future engineering projects and research studies

Electrical Engineer, RTA Electrical Components, Winterhude

January 2016 — December 2017

Spearheaded the Lean Manufacturing Kanban philosophy which had positive effects on quality, cost and time levels by decreasing expenditures by 28%, improved quality by 18% and cut lead times by 34%

- Prepare specifications of procurement of electrical materials and equipment
- Supervise junior staff members and contract workers

- Create estimation reports for material, labor and construction costs and present as part of budget preparations
- Develop, review, update, modify and approve works schedules and relevant electrical schematics and design plans
- Continuously liaise with other engineers and clients to ensure deliverables are met
- Liaise with third-party vendors and suppliers to ensure material delivery deadlines are met

Electrical Engineer in Training, Maquin Power Generation, Austin

January 2013 — June 2016

Designed 300 unique PCB's over the course of 24 months

- Maintain, tweak and improve current electrical engineering operations and facility processes
- Draw up schedules, budgets, company regulations and relevant policies regarding safety and compliance
- Continuously analyze processes to discover room for improvement in operation efficiencies
- Conduct research, perform diagnostics and troubleshoot equipment and machinery

Education

Professional Engineering (PE) Exam, National Council of Examiners for Engineering and Surveying (NCEES), Indian Trail

July 2020 — July 2020

Institute of Electrical and Electronics Engineers, Online, IEEE Membership, Online

January 2019 — July 2020

Doctor of Philosophy in Electrical Engineering, University of North Carolina, Charlotte

January 2016 — July 2018

Thesis Topic: Micro-electro and Electrical systems design and design optimization in Class I Medical Device applications

Bachelor of Science in Robotics & Control Systems, Seattle Pacific University, Seattle

January 2012 — December 2015

Links

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Skills

Schematics	Signal Processors
Mega Power Transmitters	High Voltage Circuits
ANSYS Maxwell	Raspberry Pi
Electric motors / generators	Electrical measurements
Python	C / C++ / C#
SCADA	Project management skills
Prototyping and testing	Industry 4.0
Automation	Programming skills and languages
Electrical / PCB design software	National Electric Code (NEC)
IoT	NFPA 70

P Spice / LT Spice

PLC

Technical Drawing

Electrical simulation software

Transistors, Actuators

Mathematical Modelling

ORCAD

JavaScript

Bluebeam Revu

Robotics

Electrical Estimation

Instrumentation

Languages

English



Italian



Spanish



Hobbies

Triathlons, Cycling, Art

Courses

Certificate in Electrical Estimation, Westwood College, Los Angeles

January 2011 — April 2011

Associate Systems Engineering Professional, International Council on Systems Engineering, Online

January 2010 — April 2009