



GRACE DENNIS

Electronics Engineer

ABOUT ME

Electronics Engineer with over 8 year's of experience in specializing in production and manufacturing field. Implement and monitor production plans to meet quality and delivery targets. Conduct regular inspections and quality checks to ensure adherence to production standards. software development microcontroller, PCB design ,firmware and testing. Adapt at identifying opportunities to enhance hardware and software performance for large scale technology implementation.

WORK EXPERIENCE

Jan 2023-2024

Transiot LLP, Cochin

Software Engineer

- Implement and monitor production plans to meet quality and delivery targets.
- Conduct regular inspections and quality checks to ensure adherence to production standards.
- Troubleshoot and resolve any issues that may arise during the manufacturing process
- Knowledge of PCB inspection techniques and technologies
- In Depth Knowledge of IPC workmanship standards
- In depth knowledge and understanding of automated PCB production processes
- Knowledge of Solder Wires, Solder Paste, Cleaning chemicals, conformal varnish and other consumable items used in PCB Manufacture
- Ability to solder to IPC Class III
- Experience in PCB drawing software, PCB design and prototyping Self-development, and ambition to learn and develop skills.
- Ability to use all electronic testing and measuring instruments skilfully.
- Experience in Hardware Design tools like (schematic Capture). PCB Layout and Gerber Tools.
- .iF_Radio development, assembling, soldering, testing
- Hamshield Radio schematic design and Gerber tool.
- Expertise in interpreting schematics and data sheets for seamless integration of components into embedded systems.
- Strong skills in configuring clock management, power modes, and peripheral initialization for optimal embedded system performance.
- Skilled in developing low-level drivers for various hardware peripherals, including UART, SPI, I2C, GPIO, timers, interrupts, EEPROM, and ADC interfaces.
- Embedded Linux : GPU card testing and for building the kernel & flashing using standard build/flash scripts
- Strong skills in configuring clock management, power modes, and peripheral initialization for optimal embedded system performance.
- Expertise in interpreting schematics and data sheets for seamless integration of components into embedded systems.
- Basic knowledge in CAN protocol. UDS, LIN

Projects:

1. LoRa Based Product development of Tracking agro products in transit
- Develop a LoRa based project where the sensors are interfaced to STM32WLE5JC microcontroller to monitor sensor conditions like temperature, humidity. Moisture, light. vibration etc. The data collected is transmitted to the LoRa Gateway through LoRa RF modules. The data is then sent to the LoRa Network Server where data can be monitored .
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2. Ham Shield Radio Development
- PCB Design, creating BOM and Gerber file
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3. HF_Radio Development
- Assembling ,testing using multimeter, LCR meter, logic analyzer
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4. STM32F437VGG PCB Design

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📍 Saif building ,Al Qasimiya, Sharjah

EDUCATION

Bachelor B Tech(ECE) 2012-2015

M G University

Diploma in Telecommunication 2009-2012

Board of Technical

VHSE

Board of Technical 2007-2009

EXPERTISE

- Proficiency in Lean Manufacturing techniques
- Knowledge of production process Soldering & Final inspection
- Keil, proteus
- PCB Desining, schematic design and layout
- GUI with QT creator
- **Device** - Logic Analyser ,multimeter, CRO
- M S Word
- M S Excel
- Coaching and mentoring
- **Programming Languages** - C
- Embedded C / Bare metal
- programming - ARM Cortex M3,
- STM32F437vG
- LPC1768,
- **Protocols** - UART, SPI, I2C, EEPROM
- **OS** - Linux, Windows
- **Programming IDE** - STMCubeIDE,
- LPCXpresso, Keil
- Sequence diagram

LANGUAGE

English
Hindi
Malayalam

TRAINING&CERTIFICATES

- Embedded Professional course
- DCS&PLC

PERSONAL DETAILS

Nationality: Indian

Date of Birth: 30-Dec-1992

Visa Status: Visit Visa

Passport No: U9488994

Marital Status: Single

Language Known: English,Malayalam,Hindi

2017 - 2023

Global Wave Technology Pvt Ltd.

Electronics Engineer

- Troubleshoot and resolve any issues that may arise during the manufacturing process.
- Work closely with cross-functional teams to streamline workflow and enhance overall efficiency.
- Assist in the development and implementation of continuous improvement initiatives.
- Verify and compare Bill of Materials and kit during kit release, also verify PDI and compare with data pack during production order release
- Ability to assist in technical fault-finding processes
- Knowledge and understanding quality control in the engineering industry, including software, electronics and mechanical fields
- Knowledge of Blank PCB attributes and how to access acceptable attributes form rejected ones
- Performing quality checks for incoming material for PCB ,metal and other related components.
- Ensure timely preparation of BOM
- Build various types of wireless antennas
- Establishing a testing procedure for PCB used by company safety
- Responsible for new product developments, Evaluation
- Monitor production activities & take complete control in manufacturing
- Soldering & final inspection

2016 - 2017

SFO Technologies Pvt Ltd.

Production Technician

- IPC standard 610E training
- Conduct process inspection and quality control during SMT (Surface Mount Technology) assembly to test the performance, analyse and deal with flaws and defects in time, including solder paste printing, chip mounting and reflow soldering
- PCB testing ,machine testing & documentation
- Awareness in share points Navision software final inspection as per IPC standard
- SMD soldering & rework
- Conduct visual inspection of first board for correctness, alignments and orientations against the including the visual inspection of solder quality as per the technical requirements (IPC-A-610 Class III)
- Maintain right level of ESD protection required for the PCB as per the ESD grounding requirements

AWARDS&ACHEIVEMENTS

- 1.Rashtrapati Award from Former President of India A P J Abdul Kalam(2007)
- 2.Rajya Puraskar Award from Kerala Governor R L Bhatia(2006)