

G S V Arun Kumar Padala

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EDUCATION

Electrical Engineering, Master of Science, *University of Massachusetts, Lowell*. GPA: 3.4/4, Jan'2014 — Dec'2015

Electrical and Electronics Engineering, Bachelor of Technology, *JNTU, India*. Cum. %: 75, Sept'2009 — June 2013

SKILLS

- Programming Languages: C, Python
 - Microcontroller Testing: Arduino, PIC
 - Simulation Tools: MATLAB Simulink, LTSpice
 - CAD & PCB: OrCAD Pspice, Altium, AUTOCAD (for cable drawings)
 - Prototype Development Software: LabVIEW, NI DAQ devices
 - Hands on experience with Oscilloscope, spectrum analyzers and automated power supplies
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WORK EXPERIENCE

Fresenius Medical Care, NxStage Group, Lawrence MA, North America

June 2018 - Present

Electronic Design Engineer II, Product: Dialysis Machines

- Performed hardware and software testing on medical graded dialysis system and sub-systems.
- Worked closely with all engineering disciplines, including Systems, Electrical, Mechanical, Disposables, and Software Engineering, as well as Project Management and Quality personnel, to verify and validate product designs.
- Created new test fixture PCB's based on IEC 60601 standards.
- Developed automated software using NI LabVIEW and NI DAQ devices
- Participate in the planning and lead the execution of Validation & Verification (V&V) testing activities in support of regulatory filings for Class II medical devices.
- Worked with Quality Assurance and Development teams to maintain an approved internal Quality System that meets the requirements of GMP's, QSR and ISO 9001.
- Developed test plans for EMI/EMC based on IEC 60601 requirements.

Tekscan Inc., South Boston MA, North America

Jan'2017 — June'2018

Applications and Test Engineer, Product: Flexible Force and Pressure Mapping Sensors

- Developed long duration automated testing fixtures for validating performance of the flexi-force sensor that can offer immediate solutions, saving time and revenue (orders ranging 100k to 1M)
- Helped in assisting prospective customers (orders range up to 1M) to validate sensor applications and offered circuit-level solutions for various applications
- Fast pace testing for cross-functional engineering medical products with medical and electrical safety standards
- Perform root-cause analysis for sensor failure and helped production team in re-iterating process factors and Instron Testing
- Work closely with R&D teams for prospective sensor applications especially in Industrial Robotics and automation industry with documentation of technical details and product specs.

Lutron Electronics Inc., Coopersburg PA, North America

June 2016 — Dec'2016

Power Electronics Design Test Engineer, Product: LED Drives

- Industry grade Testing- EMI, EMC and HI POT testing and internal failure analysis
- Competitive Analysis of various products compared to Lutron Devices
- Analysis on returned products, identified root-cause for failure
- Circuit verification and functionality tests using Altium, MATLAB and board bring-ups

Analog Devices Inc., Wilmington MA, North America

June 2015 — Aug'2015

Applications Engineering Intern, Product: Smart IC's for Energy Metering

- Interfacing of voltage and current sensor with Smart IC and understanding the working
- Design of Customer Evaluation Software using LabVIEW,
- SoC verification on Customer evaluation boards using FPGA