

CURRICULUM VITAE

Santosh G Kondaguli
MTech. (CSE), BE (ECE)

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Career Objective: Objectives change based on career needs- Want to Trust my Knowledge and Love my Job

Professional Summary- Around Nineteen years of experience in both teaching (Eleven Years) and Industry (Eight Years)

PROFESSIONAL EXPERIENCE:

- June-2022 to Till Date: Semtech Advanced India Electronics Pvt. Ltd., Hyderabad 🏢 **Senior Application Engineer, Center of Excellence; Key Contribution:** Set-Up of Circuit Protection Lab (First of kind in India for ESD, Surge and TLP Testing Lab with best-in-class Art of Excellence)
- April-2021 to May-2022: WPG India Electronics Pvt. Ltd., Bangalore 🏢 **Application Engineer, Automotive Division; Key Contribution:** Board Development & Validation on automotive designs and Technical Support to Client-side designs.
- July-2016 to April-2021: Arrow Electronics India Pvt. Ltd., Bangalore 🏢 **Field Application Engineer, Branch Technical Services; Key Contribution:** Technical Support on Board Development & validation for top ODM/OEM Clients and Semiconductor Suppliers.
 - ✓ Champion Supplier Lines engagement- ADI, Infineon, NXP, ST, Toshiba, OnSemi and many others
 - ✓ Design support for major automotive clients for designing Charger (up to 20 KW), BMS & Motor Control for Electric Vehicle, ISG Controller, RR Unit, CDI/ECI, Vehicle Telematics/Cluster/ADAS & Automotive Lighting etc.
- July-2005 to June-2016: Academics- KLE College of Engineering and Technology, Chikodi (July-2009 to May-2016, 07 Years), Basaveshwara Engineering College, Bagalkot (October-2006 to June-2009, 03 Years) and M S Engineering College, Bangalore (July-2005 to October-2006, 01 Year) 🏢 **Faculty-Dept. of ECE/CSE; Key Contribution:** Teaching inter disciplinary subjects across ECE and CSE, handled various administrative profiles as Students Association Coordinator, Hostel Chief Warden and Head of the Department in the entire academic career.
- November-2003 to August 2005: FALCON Electro-Tek Pvt. Ltd., Bangalore 🏢 **Technical Engineer.**

Industry Work Profile

Senior Application Engineer @ Semtech CoE, Hyderabad

Test Method	Primary Equipment	Description
Surge Test	KAST SG-200	As per Test Standards-IEC 61000-4-5, other instruments- Keithley SMU 2614B and Tektronix MSO46B
ESD Test	Noisiken ESS-B3011 ESD Generator and GT-30R Gun	Test Standards-IEC 61000-4-2, Other major instruments-ESD Table and Tektronix MSO64B
TLP Test	HPPI TLP-4010C	Extended test measure over ESD for SEED Analysis
Thermal Test	MPI Thermal-TA5000A, LCR Meter-E4980A	Variation in device behavior (electrical parameters) w.r.t temperature, other instruments- Keithley SMU 2400B,
DC Sweep Test	Keithley SMU 2400B	IV Characteristic Curve through Current/Voltage Sweep
Soldering Station	JBC Soldering Kit, Microscope and accessories	Soldering of as small as 0201 (0603) & 0402 (1006) packages, visual inspection with scope and continuity tests in the Lab

Automotive-FAE (@Arrow) and AE (WPG): Top Supported Designs

Project/ Application	Market Segment	Strategic/Market Segment
Multi-KW DC/BLDC Motor Control Unit	EV-Core	At the heart of EV, Motor may be Induction (Less efficient), DC or BLDC. LEVs prefer to use BLDC Motor and Other EV models use PMSM Motor.
Up to 350V Battery Management System	EV-Core	Top automotive EV OEMs need ASIL-D certified designs for their product. ADI BMS ICs comes with all those certifications and can be cascaded for high capacity BMS designs.
Multi-KW Charger & DC-DC	EV-Core and ICE Vehicles	EV Charger design has multiple blocks such as rectification, isolation, PFC Control etc..
Smart Connected Cluster	Cabin Electronics	Integration of Tracker/Telematics & Vehicle Cluster. Controller along with GSM/GPS, BLE and Sensors Integration.

Up to 100W USB-PD	Cabin Electronics	Multi-Channel USB-PD; SoR: 2-Ch (60W) USB-C, 2-Ch (18W) USB-B and 2-Ch (10W) USB-B. Input through 12-24V, 250W Adaptor/Power Supply. Buck-Boost and Buck from ADI and Cypress USB-PD Controller used.
Reverse Park Assistance System (RPAS)	Reference Design- Body Electronics	OnSemi-NCV75215 ASIC based RPAS solution developed for 4-Wh Vehicles. The solution uses Ultrasonic Sensor and is Transformer-based. The design can also be tweaked with Transformer-less that optimize it further.
Lighting Control Module (LCM)	Reference Design- Body Electronics	Solution was designed for Automotive Lighting Control Module that takes care of all lightings and associated power control- Headlamp/DRL, Tail-Lamp, Turn Indicator etc in 2-Wh Vehicles.
Tire Pressure Monitoring System (TPMS)	Reference Design-Body Electronics	New design based on NXP reference solution. This is single chip ASIC with pressure sensor and Sub-GHz TxRx. Development under progress.

Field Application Engineer @ Arrow Electronics

Supplier	Strategic Segment
LTC +ADI	Power, Analog-Mixed Mode-Digital Processing, Instrumentation and Sensing
Toshiba, Semtech, ISSI	Discrete, Analog-Mixed Mode-Digital Processing, Memory and Storage
Infineon + Cypress	Power, Analog-Mixed Mode-Digital Processing, Instrumentation, Sensing and Discrete
NXP-Nexperia-WeEn	Power, Analog-Mixed Mode-Digital Processing, Sensing and Discrete
OnSemi, MPS	Power, Analog-Mixed Mode-Digital Processing, Sensing and Discrete
ST Micro Electronics	Power, Analog-Mixed Mode-Digital Processing, Instrumentation and Sensing
Bourns, Vishay, Allegro	Discrete-Passives, Instrumentation, Sensing and Power

Academics: Primary Courses of Interest- Subject Level Teaching and Learning

Courses	Subjects of Interest
Electronics	Electronic Circuits & Logic Design, OpAmps & Instrumentation, Solid State Devices, Basic VLSI Design
Communication & Networking	Analog & Digital Communication, Computer Networks, Wireless Networks, AdHoc Networks, ITC, Mobile Communication
System Organization & Architecture	Computer Organization, Microprocessors & Interfacing, Operating Systems, Embedded Computing Systems/Storage Networks
Programming/ Algorithm	Digital System Design-VHDL/Verilog, Principles of Programming Language, Data Structures & Algorithms, C/Embedded-C, Digital Image Processing
UG/PG Projects Completion/Guided	Design & Simulation of SONET based STS-1 to STS-3 MUX/DEMUX, Face Detection in Video Sequence, Attendance Automation using Face Recognition, Smart Economy through Resource Optimization, Simulation Aspects of Humanoid Robot Joints Control

Papers Publication

- Optimization of MEMS Structure with Genetic Algorithm-National Conference, RTC & SD-2008 @NIET, Nalgonda
- Online Attendance Management through Face Detection and Recognition in a Group Image- International Conference, ICE-ICEE 2014 at SVIT&S, Indore, MP, India
- Hybrid Soft Computing: The Perception- International Journal, IJARSE, New Delhi

Skills Summary

Skills and Expertise: Event Organization & Management, Semiconductor Component Engineering, BoM (Bill of Materials) Optimization, Board Bring-Up and Testing.

Programming Languages (Exposer/Expertise): Principles of Programming Languages, Embedded Programming with Assembly Code & C, VHDL, VeriLog, Matlab, Object Oriented Programming (C++/JAVA Beginner Level)

Tools and IDEs Exposer: ADI/LTC- LTSpice, LT-PowerCAD & LT-PowerPlay, Infineon/Cypress-PSOC Creator, EZ-USB & WICAD, Cadence-Allegro Schematic & PCB Designer, MATLAB, Agile PLM, SFDC, ModelN, MSD

System Level Application: Electronic Hardware & Embedded System Design, Solution Architecture & Operating Systems, and Internet of Things (IoT).

Career Strengths/Achievements:

- Engagement & Technical Support to potential market segments such as Automotive, EV, Telematics & IoT
- Certified DFAE for Linear Technology/Analog Devices, ST Micro, OnSemi and Cypress/Infineon.
- Proven administrative skills & learning experiences as HOD, Warden and Coordinator in the past career.
- Conducted and attended many workshops & STTPs and presented technical talks & guest lectures.
- **Professional Membership:** 1. Life Member, ISTE 2. Former Member, IEEE

Academic Record

Qualification	College/School	University/ Board	Passing Year
M Tech.- CSE	Basaveshwar Engineering College, Bagalkot, Karnataka	VTU	2009
BE-ECE	University B D T Engineering College, Davangere, Karnataka	Kuvempu University	2003
IX-XII Class	Jawahar Navodaya Vidyalaya, Almatti D S, Vijaypur, Karnataka	CBSE	1996-99

Personal and Other Information

Date of Birth: 20th June 1981

Father's Name: Gurulingappa SKondaguli

Marital Status: Married

Languages Known: Kannada, Hindi and English

Nationality: Indian

Strength: Sound knowledge on engineering fundamentals and ability to upgrade with the technology and market soon.

Want to attain with good problem-solving skills.

Current Company Notice Period: Sixty (60) Days.

Current CTC: Always Satisfied with what I earn.

Expected CTC: Happy to receive best for my efforts

Declaration

I hereby acknowledge that all the information given above is true to the best of my knowledge.

Yours Sincerely

(Santosh G Kondaguli)