

SAURABH PALAN

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PROFESSIONAL EXPERIENCE

People Power Company, Palo Alto, CA (Oct 2010 – Present)

Quality Assurance Engineer

People Power Company is building the next generation of energy efficiency monitoring and control solutions for homes, buildings, appliances and devices. It's a very innovative start-up based in the heart of Silicon Valley. But as with any start-up, the work was not limited to a role/title and I wore many hats as a Start-up Engineer.

QA Engineer: My primary position was in Quality Assurance Engineering. I developed end-to-end test procedure to scale production and provide quality devices for customers. I contributed with re-designing process for the next generation of the products based on design guidelines for UL and FCC certification.

Field Application Engineer: I helped the company successfully launch and execute Phases 1 & 2 of a Palo Alto Pilot Program. I worked as Field Application Engineer and Customer support, interacting one-on-one with customers and installing devices at their home/office. While working with third-party hardware, I also was responsible for resolving issues with the hardware vendors.

Social Media Outreach, Marketing & Community Support: I overtook the responsibility to manage the company's social media profile and helped gather more traction, visibility and followers. During my tenure as social media representative, company's social visibility and follower base increased by more than 30% in one month. I also devised innovative and interactive online activities to increase user participation and following. During the Palo Alto Pilot Program, I was also involved in marketing and 1:1 user interaction to gather more participants.

ITT Technical Institute, Concord, CA (Sept 2010 – Present)

Adjunct Faculty (Part-time)

I am currently an Adjunct Faculty for Microprocessor systems. I have also taught Communication systems courses. I also conduct seminars and tutorials for Electronics and Telecom Association (ETA) on Robotics, Basic Electronics and SMD Soldering and Rework techniques.

Dragonfly Pictures Inc., Essington, PA (Dec 2009 – April 2010)

Research Engineer (Intern)

Dragonfly Pictures Inc. (DPI) develops innovative vertical takeoff and landing (VTOL) unmanned aircraft systems (UAS). I worked with a team of hardware and software engineers to design the avionics for an electric tandem unmanned helicopter product (DP-6 Whisper). I designed circuits and PCB for avionics control systems and DC/DC conversion systems for the electric helicopters.

University of Pennsylvania, Philadelphia, PA

Research Assistant, Haptics Lab (Fall 2009 & Spring 2010)

Conceptualized, designed and developed Tactile Gaming Vest for FPS (First Person Shooting) Games. The vest can simulate feeling of bullet hit, wound fever, body impact and vibration (like in explosion), blood flowing, shoulder tap that extremely enhance the gaming realistic and fun. *The Vest was highly appreciated by media featuring on more than 50 technical websites and blogs including IEEE Spectrum and WIRED.*

Research Assistant, mLab (Real time and Embedded Systems Lab) (Summer 2009)

Developed embedded platform of high-confidence medical device for 'long-term wear on body' system. This system is able to diagnose to the patient's condition in real time.

Teaching Assistant

1. Embedded Systems/Microcontroller Laboratory. (Spring 2009)
2. Waves, Fibers and Antennas for Communication. (Fall 2008)

TRI Technosolutions Pvt Ltd, IIT Bombay, Mumbai, India (July 2007- July 2008)

Technical Associate (R&D, Training and Marketing for Robotics and Embedded Systems)

Product Development:

- Robotic Manipulator - iARM and TRIceps (4 & 5x): Project in-charge for development of a 4-DOF & 5-DOF Robotic Manipulator, a premium Lab tool for teaching Robot Kinematics and Workspace analysis.
- Embedded Systems platform - UNICON: Designed and developed a UNiversal CONTroller Embedded Trainer Board compatible with MCS 51 and AVR Microcontrollers for Embedded System Course XERA.
- Mobile Robotic Platform - iBOT proV: Project in-charge for development of an Embedded system based Robotic Platform, a Lab tool for Embedded system, Mechatronics and Mobile Robotics.

Teaching/Training:

- Designed, conceptualized and conducted courses on Embedded systems (XERA) for industry professionals.
- Trained undergraduate students in Embedded system and Autonomous Robot building at (iTRix) workshop organized by TRI at various Engineering colleges across India.
- Designed a course for training faculty members in Embedded system and Robotics concentrating on Robot kinematics, workspace analysis and motion planning.

Marketing & Sales:

- Involved in technical marketing of new products and courses.
- Delivered presales presentations and provided customer support.

Consultant for Project Development, Mumbai, India (2005-2007)

I worked as a consultant for Circuit and PCB designing during my undergraduate years. I provided complete solution from Circuit designing to PCB Manufacturing, Assembling and Testing. I designed hardware for several Embedded systems and Digital Electronics projects.

EDUCATION

University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA, USA

Master of Science in Engineering

Major: Robotics

University of Mumbai, K. J. Somaiya College of Engineering, Mumbai, India

Bachelor of Engineering

Major: Electronics

HANDS-ON DEMONSTRATION

Saurabh Palan, Ruoyao Wang, Nathaniel Naukam, Edward Li, and Katherine J. Kuchenbecker. **Tactile Gaming Vest (TGV)**. Hands-on demonstration at IEEE Haptics Symposium, Boston, Massachusetts, March 2010.

TECHNICAL SKILLS

Programming Languages: C, C++, Assembly, Visual Basics (Basic Java and Python)

Operating Systems: Windows XP/Vista/7, Linux

Application Software: MS Office suite, MATLAB

Embedded Systems:

Microcontrollers: AVR, Motorola 68HCXX, MCS-51, TI MSP430

RTOS: Nano-RK, OSIAN

CAD Tools:

Electronics: EAGLE, CircuitMaker, Cadence Orcad

Mechanical: AutoCAD, Solidworks, Nastran NX, Google Sketch-up, eMachineshop

Hardware Skills

Electrical: Soldering (BGA), Testing and Debugging, Operating test equipments,

Mechanical: Laser Cutter and 3D printer operation, Machine Shop

CO CURRICULAR ACTIVITIES

President, RANGOLI – Indian Association at University of Pennsylvania (2009)