Anagha Asok

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Objective
Seeking internship in computer engineering industry where technical skills in embedded and computational system can be utilized.

Education
University of Texas at Dallas, Richardson, TX 75080
Masters in **Computer Engineering**   May 2018
Amrita Vishwa Vidyapeetham, Coimbatore, Tamilnadu, India
Bachelor of Technology in **Electronics and Communication Engineering** with an aggregate GP of 8.73/10 (**4.0/4.0**).   May 2015

Projects
Virtual Mouse, Amrita Vishwa Vidyapeetham   February 2013 - January 2014
- Developed a wireless system which can allow the presenter to do any action (that mouse does on desktop) on the projected screen, directly with a pen like Ultrasonic Transmitter.
- Prototyped using Embedded Processors (MSPEXP430G2), Ultrasonic Sensors, Infrared Sensors and Bluetooth technology.
- Presented the paper in Texas Instruments India Educator's Conference (TIIEC 2014).

Portable Touch Screen, Amrita Vishwa Vidyapeetham   February 2014 - May 2014
- Designed a portable system which can be mounted anywhere, possibly on a desktop or phone screen or projected screen and use the surface as a touch screen using Surface Acoustic Wave transmitters, receivers and reflectors.
- Presented the paper in the International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'14) and published in the Conference Proceedings

Portable Infrared Carbon Dioxide Detector for Monitoring Vehicular Emissions,   January 2014 – May 2015
Amrita Vishwa Vidyapeetham
- Developed a portable carbon dioxide detector for monitoring vehicular emission. This paper describes the design of the detector using low cost components.
- Presented the paper in IEEE International Conference on Industrial Instrumentation and Control (ICIC 2015) on May 28 -30, 2015 and has appeared in I**EEE Xplore. (DOI: 10.1109/IIC.2015.7150837) and also indexed in Scopus**.

Automatic Poly-farm Controller using Wireless Sensor Network, Amrita Vishwa Vidyapeetham; September 2014 – May 2015
- Designed a wireless sensor network with sensors and PIC16F877A. The master controller which automates the actuators based on information from the sensor nodes has a Programmable System on Chip 5 with 32bit ARM CortexM3 processor.
- Completed the project as a part of partial fulfilment of the under graduate degree.

Adaptable Back Pack Holder with front access for Wheel Chairs, University of Texas at Dallas   2-4, September 2016
- Designed and prototyped a back pack holder which can enable the user to access the back pack from his front by pulling a lever with one arm. Fundamental mechanical concepts and rail systems are made use of in the design.
- Modelled as a part of contesting in INNOVATE Design-a-Thon 2016, organized by Department of Bioengineering, Rice University under the topic "Assistive Devices for Adults and Children with Disabilities".

Experience
As**sociate Software Engineer**   June 2015-July 2016
Robert Bosch Engineering and Business Solutions, Coimbatore
- Participated in software development of Electronic Power Steering (EPS-APA) of German OEMs mainly Volkswagen and Daimler using CAN and FlexRay Vehicular Communication Protocols.
- Requalified and tested (VCAR and Component Integration Testing) the Functional Software Component "Rack Position" of Porsche MSB.
- Gained expertise in organization tools like EA, CC, CQ and DOORS.

Intern
Kerala State Electronics Development Corporation Limited. (KELTRON)   December 2012
- Familiarized with various units of KELTRON like Control and Instrumentation Group, Strategic Service Group, Pneumatic Business Group, Information Technology and Coastal Security Services.

Intern
Electronics Corporation of India Limited (ECIL) Bangalore   June 2013
- Familiarized with basic concepts of 'Cryptography'. Developed algorithm of 'Present Cipher ' (6 bit encryption).

Technical Skills
Tools: LabVIEW, MATLAB, Proteus ISIS, CAD, MPLAB, Model Sim, WinSpice, Verilog (Xilink), Synopsys (Design Vision)
Industry-Specific skills: Green Studio, Canoe, Eclipse, Softcar, CC, CQ, EA, DOORS
Programing/ Hardware Skills: C, C++ Microcontroller Programming on PIC, Arduino, TI MSP430, PSoC, Renesas

Awards
- Secured consolation prize in Phase 1 of Texas Instruments Innovation Challenge India Analog Design Contest 2014 (Project Virtual Mouse) (among 365 projects 29 projects were awarded consolation prize).
- Third Position in RoboZest Line following Robot Competition, May 2013