

Arun Magesh M

25Under25, Intel Software Innovator

Born on: Aug 7, 1992

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In a nutshell: I'm an electrical engineer by qualification, human by birth, maker by profession & doer by heart. Exploring my love for problem solving and challenges, I found my soul mates; electronics and hacking.

Expertise

IoT, Technology for healthcare, Technology for neuroscience

Keeping Busy

I hack

I hack anything and everything with circuits. I love exploring the working mechanisms to maximize and optimize its potential.

I mod

I modify anything that needs a different perspective in its working. I love beautifying the process of how the device works.

I teach

I teach with my online tutorials on how you can make fancy gizmos and gadgets

I heart

I love what I do and do only what I love. But most of all, my heart goes out to create technology to

I sketch

I love sketching portraits of all the interesting people I meet in life. It is my gift to them for leaving an impression on me.

I win

I love winning experiences and knowledge, going beyond just name and fame.

I speak

I'm a big believer in the saying, 'Actions speak louder than words'. That's pretty much the reason why you'd most often find me speaking only about technology and anything that is logical and sensible.

Experience

IoT Security researcher, Attify Mobile Security

Working on a Embedded and IoT security

May 2016 – Present

Projects

1. IoT based home automation

December 2012

This is a project that enables users to control their home applications anywhere from the Web Browser.

2. Bluetooth controlled gadgets

November 2013

This application allows users to control any device like rover, home appliances using Bluetooth.

3. Mind controlled electronics

March 2014

This is a project that enables users to control any application using their mind.

4. Mindbot

April 2014

This is a project that enables users to control a Rover.

5. Epilepsy detection device

August 2014

Epilepsy detection is a wearable device, which detects sudden Epileptic seizure using EMG and gives auditory alerts to the caretaker.

6. Driver sleep detector

September 2014

This device detects the driver's concentration and relaxation level to alert him in case he falls asleep. It alerts him via a visual or physical feedback.

7. Smart Pill Box

November 2014

This is a device that enables older patients with amnesia to adhere to chronic disease medicines on time.

8. Women Safety Wearable device

May 2015

This is a small wearable belt, which is fitted with a geo-tracker to send the person's geo-location to the caretaker in case of emergency, and also has defense mechanism in case of critical situation.

9. Baby Health monitoring wearable device

July 2015

It is a small wearable device, which can send the vital health parameters of the child to a nearby gateway by means of Bluetooth and then WIFI to connect to the cloud and graph is plotted.

10. Smart Traffic monitoring System

October 2015

It is an IoT based road traffic management system, which uses unique RFID tags to track each vehicle in real time.

11. Smart HuD

February 2016

It is a Heads-up display for drivers which runs on Intel Edison and it projects the data in an augmented display and logs all the driver details in cloud.

12. Arduino Glass

March 2016

It is an open source arduino based hardware platform for augmented reality allows developers and makers to tinker with the AR hardware and software.

13: MeO – Smart menstrual reader

March 2016

It is a small wearable that can be fitted in a sanitary pad or vaginal pad which measure the blood flows and other vital parameters and alerts the user in case of abnormality

Research Experience

· Arun Magesh M, Efficient factor of G2AL Photo-voltaic Cell, International Journal of Engineering Sciences & Research Technology, Vol. 2, No. 7, July, 2013.

· Arun Magesh M, Adaptive Stability of Unmanned Surface Vehicle, International Journal of Electrical and Electronics Engineering, Vol. 1, No. 8, Oct 2014.

Internship

· Location: IAW labs (Intern), Chennai.

Project Name: Micro Cloud server, ATM security system.

Awards and Achievements

· Runner up in Bend your Mind Challenge by Atmel Corporation, July 2014

· Won Collaborative challenge award at Cisco ThingHack Hackathon for Epilepsy detection device, August 2014

· Won second prize for Smart Wearable Women Safety Device at Arunai Engineering College, Project, March 2015

· Won second place in urban hack hackathon for tag car project and won a cash prize of 1lakh, October 2015

· Selected as the Top 25 Under 25 in the field of Technology and Science for 2016 by CampusDiaries

Talks

- September 2014: Talked about Mindbot at Mozilla Maker party, Chennai
- January 2015: Speaker on a panel on Brain Computer Interface at Maker Fest, Ahmedabad
- March 2015: Talk on Mindbot at Arduino day, Bangalore
- August 2015: Interviewed by DD News during Innofest on Mindbot, Bangalore
- January 2016: Talk on drones at Think Happy Everyday workshop, Bangalore

Technical Skills

- Hardware: 8051, Arduino, Raspberry Pi, UDOO, Intel Edison, Eagle, Sparkcore, MSP430, Optics.
- Programming: C, C++, Python, Embedded C.
- Documentation Software: Microsoft Office, OpenOrg Office, Photoshop, Flash.
- IDEs: Keil uvision, Code Composer Studio, Energia, Arduino, Mikro C.
- Miscellaneous: HTML, Processing, Fritzing, .

Soft Skills

- Public Speaking
- Teaching
- Social Media

Educational Qualification

- Arunai College Of Engineering Bachelor of Engineering (BE), Electrical and Electronics Engineering, 2011 - 2015
- RBANMS pu college Pre-University, PCMC, 2010 - 2011