

Akshai M

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Research Assistant
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Work experience

FOSSEE, IIT Bombay

October 2016 - Present

Project Research Assistant

- [OpenPLC Project](#) , Revision of Hardware to a Modular Platform with support for IEC 61499

ICFOSS, Govt of Kerala

June 2016 – September 2016

Technical Coordinator , Open Source Hardware

- Project Coordinator – [ExpEYES Community Development and Hardware revision.](#)
- Project Coordinator – LeSEG Project ,Sustainable Labs for Technical Institutions under APJ Abdul Kalam Technological University , Kerala
- Project Coordinator – [4DIAC](#) Community Development Programme under fortiss · An-Institut Technische Universität München.

Kerala Start Up Mission, Govt of Kerala

July 2015 – June 2016

Technology Innovation Fellow

- Fellow at [Fab Lab Kerala](#) , an initiative from Center for Bits and Atoms , MIT Boston and Govt. of Kerala.
- Development and deployment [IoT labs](#) and its curriculum for colleges via IEDC's.
- Development of school curriculum for [ExpEYES](#) ,a portable science lab for schools and revision of ExpEYES hardware for large scale manufacturing.
- Project Engineer , COWMesh – Community Owned Wireless Mesh , Aruvikkara.

ICFOSS, Govt of Kerala

May 2015 – July 2015

Intern, IoT Project Developer

- Mentored and delivered 11 projects in the field of Internet of Things during a period of 1 month.
- Developed IoT curriculum for Engineering College Students.
- Supported ExpEYES Training at IUAC , Nuclear Research Centre , New Delhi.

All India Radio , Govt of India

2 Weeks May 2013

Training

- Part of a team of 12 who got training at 200KW transmitting station at AIR Alleppey.
- One week schedule at AIR Transmitter center. Learned the basics of industrial radio design models , High power Vacuum Tube based amplifiers , power compillation techniques and Coaxial cable designs.

Social Entrepreneurship (Technical)

MicroHOPE Foundation

Founder

Dec 2013 - Present

- Development of MicroHOPE Board , an AVR Controller based prototyping board.
- Delivered over 10 workshops on OSHW and MicroHOPE under support from ICFOSS.
- Mentored projects using MicroHOPE Hardware.

Events and Activities (Technical)

IEEE SB CE Kallooppa

Jan 2014 - Jan 2015

Chairman

- IEEE Member since December 2011

IEEE Travancore Hub

Jan 2013 - Jan 2014

EC Coordinator

- Opportunity to support 23 Engineering colleges in South Kerala via IEEE LINK.
- Conducted workshops and volunteer training programs.

IEEE GHTC YPP - 2

June 2013

Member

- Development of solution to issues addressing Rural District Health Office Data Connectivity and eHealth Record system.
- Team developed a detailed engineering design specification that outlines the scope of the project, the technical and social problems as we see it, and the proposed solution approach.

ICFOSS

Jan 2014 – April 2015

Student Ambassador

- Support for [IT@School](#) Faculty Training.
- Initiated Open Source Hardware for Science Working Group.

Association RMLL Montpellier , France

July 2014

Fellow

- Public speaker and associate at 15th Libre Software Meet -Rencontres Mondiales du Logiciel Libre by Fédération Régionale des Utilisateurs du Libre - FRUL held at Montpellier , France.

NASA Space Apps Challenge - Kochi

Apr 2014

Coordinator

- Mentored projects on Open Source Hardware.
- Three projects were accepted by SpaceApps.

Education

B.Tech Electronics and Communication

Sept 2011 — April 2015

Engg.

College of Engineering Kallooppa , CUSAT Affiliation

- First Class with an aggregate of 68.65 %.

Higher Secondary

June 2009 — March 2011

Dr. Z.H.M Bharatiya Vidya Vihar

- 77.8% marks in AISSCE.
- 84.6% marks in AISSE.

Achievements

Certificate of Appreciation

- IEEE Kerala Section (2014)

Certificate of Appreciation

- NASA Space Apps(2014)

IEEE R10 Student Paper Contest 2013

- Awarded with third prize for paper named "Svastha – Effective Solid Waste Management in Tiruvalla Municipality"

IEEE PES - KSEB Paper Presentation Competition 2nd Prize 2013

- Kerala State Electricity Board and IEEE Power and Energy Society

IEEE SIGHT R10 Humanitarian Page Contest Winner 2013

- IEEE SIGHT

Publications

Book on Computer interfaced experiments using ExpEYES – Experiments for Young Engineers and Scientists , Malayalam - ICFOSS

AVR Assembly tools for concurrent programming in C – Open Hardware Track , [Gnome Asia Summit Indonesia 2015](#)
May 2015

MicroHOPE , DIY Hardware for real world solutions – [Libre Software Meet 2014 , Montpellier France](#). RMLL Archives.
July 2014

SVASTHA: An effective solid waste management system for Thiruvalla Municipality in Android OS - [Global Humanitarian Technology Conference: South Asia Satellite \(GHTC-SAS\)](#), 2013 IEEE
August 23, 2013

Technical Skills

Languages :

Bash, Embedded C, Micro Python, LUA.

Markup Languages:

Latex , HTML

Tools

Git Version Control

CAD Tools

KiCAD

Kokopelli

Antimony

Inkscape

Machines

3D Printer – Ultimaker 2 and Stratasys Dimension 1200es , Shopbot CNC Router , Rolland Modella , Rolland GX – 24 Vinyl Cutter , Trotec Laser Engraver/ Cutter , ALC Sand Blaster

Interests

- Electronics , DIY hardware hacking.
- Speed cubing , Percussion Instruments - Tabla

References

Dr. Jayasankar Prasad
CEO , Kerala Startup Mission
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Dr. Ajith Kumar B P
Scientist SH , Inter University Accelerator Centre
Email : ajith@iuac.res.in