

Akshai M

akshaim.in

[in.linkedin.com/in/akshaim](https://www.linkedin.com/in/akshaim)

<https://github.com/akshaim>

Research Assistant
FOSSEE Project, IIT Bombay
CFD Lab , Aero Annex Building
IIT Powai , Mumbai - 400076
akshai.m@fossee.in
+918281 032 880

Work experience

[FOSSEE](#), IIT Bombay

October 2016 - Present

Research Assistant

- Developer - [OpenPLC Project](#) , Revision of Hardware to a Modular Platform.

[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 compilation 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
- Career development strategy for IEEE Student Members.
- Development of professional behavior among my colleagues and juniors thereby supporting the very reason and existence of the organization.

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

- Supported Activities of ICFOSS , an autonomous institution under the Government of Kerala, mandated with the objectives of co-coordinating FOSS initiatives within Kerala.
- Opportunity to work with the core team to improve free software and open hardware adoption in Kerala.
- A part of the team that conducted Swatantra 2014 - International FOSS conference

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

- The International Space Apps Challenge is an international mass collaboration focused on space exploration that takes place over 48-hours in cities around the world.
- Lead a team of 15 volunteers to conduct the event at Startup Village Kochi , Kerala.

Education

B.Tech Electronics and Communication

Sept 2011 — April 2015

Engg.

College of Engineering Kallooppa , CUSAT Affiliation

- Completed in First Class with an aggregate of 68.65 %.

Higher Secondary

June 2009 — March 2011

Dr. Z.H.M Bharatiya Vidya Vihar

- Scored over 77% marks in AISSCE.
- Scored over 84% marks in AISSE.

Achievements

Certificate of Appreciation

- IEEE Kerala Section (2014)

Certificate of Appreciation

- NASA (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 (Regional Version in Malayalam)

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

Linux Shell Scripting , Python, LUA , Embedded C, R, 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
Email : jayasankar.prasad@gmail.com

Dr. Ajith Kumar B P
Scientist SH , Inter University Accelerator Centre
Email : ajith@iuac.res.in