

Akshai M

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EDUCATION

COCHIN UNIVERSITY (CUSAT)

2015 | B.TECH IN ELECTRONICS AND
 COMMN. ENGG
 College of Engineering, Kallooppa
 First Class

HIGHER SECONDARY

2011 | Dr. ZHM School, Chry
 AISSCE - 77.8/100
 AISSE - 84.6/100

LINKS

Github:// [akshaim](#)
 LinkedIn:// [akshaim](#)
 Twitter:// [@m_akshai](#)
 Quora:// [Akshai-M](#)

PROJECTWORK

UNDERGRADUATE

Embedded ARM, AVR
 RF Communication
 Hardware Prototyping
 Open Source toolchains
 Linux SBC's

SKILLS

PROGRAMMING

Python • Shell • Embedded C
 Assembly • Micro-Python • C • \LaTeX
 Familiar:
 LUA • C++ • Arduino
 Tools:
 Git, KiCAD, Inkscape, Antimony
 Ngspice

MACHINES

3D Printer – Reprap Prusa i3,
 Ultimaker-2, Stratasys Dimension
 1200es • Shopbot CNC Router •
 Rolland Modella • Rolland GX – 24 •
 Trotec Speedy 100 Laser Engraver

ENTREPRENEURSHIP

Founder | **MicroHOPE Foundation**
 A not for profit organization promoting
 the use of Open Source Hardware for
 Learning Science.

INTERESTS

Teaching, Electronics, DIY hardware
 hacking Speed cubing, Percussion
 Instruments - Tabla, Mridangam,
 Blogging, Science Fiction.

EXPERIENCE

ICFOSS | RESEARCH ASSISTANT (IoT)

Sep 2017 - Current | Trivandrum, India

- Team Lead - Development of IoT use cases in Governance for Govt of Kerala.

IIT BOMBAY | RESEARCH ASSISTANT (FOSSEE PROJECT)

Oct 2016 – Sep 2017 | Mumbai, India

- OpenPLC Project, revision of hardware to a Modular Platform based on IEC 61499 enabling distributed control/system automation.
- Adopted FORTE (4DIAC Runtime) of Fortiss GmbH, Munich.
- Eclipse SCADA (Process visualization) and FBRT (HMI) implementation.

ICFOSS | TECHNICAL COORDINATOR (OPEN SOURCE HARDWARE)

Jun 2016 – Sep 2016 | Trivandrum India

- ExpEYES Community Development and Hardware Revision.
- LeSEG Project - Sustainable Labs based on Single Board Computer for Colleges.
- 4DIAC Community Development Project for MSME in Kerala.

KERALA STARTUP MISSION | TECHNOLOGY INNOVATION FELLOW

Jul 2015 – Jun 2016 | Trivandrum India

- Fellow at FabLab Kerala, initiative by CBA, MIT Boston and GoK.
- Engineered IoT Labs for Colleges/ visiting faculty.
- Project Engineer COWMesh - Community Owned Wireless Mesh, Aruvikkara.

ACTIVITIES

Workshops/ Talks

- "Industrial Automation and Control using FLOSS and Open Source Hardware" RMLL- LSM, Saint Etienne, France : July 01-07, 2017.
- "OSH enabled Physics" **Gathering for Open Science Hardware** Santiago, Chile : March 22-25, 2017.
- "OSH enabled IoT for the year 2016" **FYPM 2016** : Jan 13 2017.
- Workshop on "MicroPython for MicroControllers" **Scipy India 2016**: Dec 10, 2016.
- Workshop on "ExpEYES" **Gnome Asia Summit** Indonesia : May 07, 2015.
- Workshop on "MicroHOPE" RMLL Montpellier France : July 05-11 2014.

Publications

- Book on Computer interfaced experiments using ExpEYES, Malayalam - ICFOSS.
- SVASTHA: An effective solid waste management system for Thiruvalla Municipality in Android OS : GHTC-South Asia Satellite, 2013 IEEE.

Volunteering

- Chairman | IEEE SB CE Kallooppa: 2014-15.
- EC Coordinator | IEEE Travancore HUB (LINK): 2013-14.
- Coordinator | NASA Space Apps Challenge Kochi : 2014.

Awards

- 2014 Certificate of Appreciation | IEEE Kerala Section, NASA Space Apps.
- 2013 Third Prize | IEEE R10 (Asia-Pacific) Student Paper Contest 2013.
- 2013 Second Prize | IEEE PES - KSEB Paper Presentation Competition.
- 2013 Winner | IEEE SIGHT R10 Humanitarian Page Contest.