

Curriculum vitae

Personal Information

Anuj Deshpande

ADDRESS	Krushnali, S.B. Road, Pune -16, IN
TEL	+91 94 22 314960
EMAIL	anuj@makerville.io
PERSONAL PAGE	anujdeshpande.com
BLOG	anujdeshpande.com/blog
SOCIAL	LinkedIn
	GitHub
	Twitter

About Me

While studying computer engineering, I started meddling with electronics. This hobby has evolved to drive the trajectory of my career.

Marketing, especially around hardware platforms is something that I love doing. I was responsible for the same during the crowdfunding campaign for [Tah](#) as well as when maintaining the open source SDK for [Marvell IoT](#). For Tah, it meant doing a Makerfaire marathon, for EZ Connect it was conducting talks and workshops at various conferences, technical and non-technical writing through documentation, blogs, and sample projects.

Manufacturing and assembly process, and especially rapid prototyping is something that I have started gaining experience in. For Tah, the scale was 1000s of devices while for Knit it was 100s of devices. It has helped me understand the gap between breadboarding a demo and buying something off the shelf in a store.

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Work Experience

- DATES** Aug 2015 - Present
EMPLOYER **Makerville Solutions**
POSITION Sole Proprietor
RESPONSIBILITIES
 - Interactive art installations for public spaces
 - Hardware and software consulting services**LINKS** mkrv.in
- DATES** Nov 2015 - July 2017
EMPLOYER **Marvell Semiconductors**
POSITION Independent Contractor
RESPONSIBILITIES
 - Maintainer for Marvell IoT's open source SDK - sample projects, community building and support , documentation
 - Support Amazon services (Alexa, Lambda, AWS IoT) related issues**LINKS** [GitHub](#) and [project page](#)
- DATES** April 2014 - April 2015
EMPLOYER **Revealing Hour Creations**
POSITION Engineer
RESPONSIBILITIES Crowd funded a BLE development board based on the Texas Instruments CC2541 BLE chip and the AtMega32u4 module. Was responsible for marketing, sales, manufacturing and software dev.
LINKS [Crowdfunding campaign](#), featured in [Engadget](#), [Hackaday](#)
- DATES** May 2014 - July 2014
EMPLOYER **3D Robotics**
POSITION Intern
RESPONSIBILITIES Port ArduPilot codebase from ST32F series Pixhawk to the Sitara based Beaglebone Black single board computer. Was part of a team of 3 students working on this.
LINKS [Blogs](#)

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Work Experience

DATES May 2013 - September 2013
EMPLOYER **Beagleboard**
POSITION Google Summer of Code Intern
RESPONSIBILITIES Develop user space libraries for embedded Linux platforms to make use of existing Arduino libraries and sample code
LINKS http://elinux.org/Userspace_Arduino
<https://github.com/prpplague/Userspace-Arduino>

DATES May 2012 - June 2013
EMPLOYER **IBM**
POSITION Campus Ambassador
RESPONSIBILITIES The Campus Ambassador program is designed to have a liaison between IBM and Academia to strengthen the collaboration and evangelise cutting edge technologies. Organised webinars and talks.

DATES November 2012 - March 2013
EMPLOYER **Oneirix Labs**
POSITION Intern
RESPONSIBILITIES Design and development of an embedded system for spectral analysis.
Technologies used include EDA tools, linear algebraic methods with NumPy and a Raspberry Pi.
LINKS [Website](#)

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Projects

TITLE	<u>Knit</u>
DESCRIPTION	Designed, manufactured and marketed an industrial grade WiFi development board to build secure applications. Based on the 88MW300 SoC from Marvell. Featured in Hackaday.
TITLE	<u>DroidNet</u>
DESCRIPTION	Framework for cloud robotics, part of Bachelor's thesis.
TECHNOLOGIES	BeagleBone Black, OpenStack, Android, Python
TITLE	<u>Gulliver's Piano</u>
DESCRIPTION	A life-size (16ft long) programmable piano. Related - laser harp , Saavn Jukebox
TITLE	<u>Talking Posters</u>
DESCRIPTION	Physical web (BLE) enabled, motion activated poster, which comes to life with songs and dialogues
TITLE	<u>Kuz</u>
DESCRIPTION	Cattle management for a local dairy.
TECHNOLOGIES	.NET, MySQL
TITLE	<u>State of the City</u>
DESCRIPTION	Creates a map of your city using crowdsourced data
TECHNOLOGIES	Mapbox, AWS IoT, EZ Connect Lite SDK
TITLE	<u>Graph Digitizer</u>
DESCRIPTION	Set of image processing functions to digitise a line chart from an image
TECHNOLOGIES	GNU Octave

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Talks & Workshops

- [Integrating Voice in your Products](#)
India Electronics Week 2017, Bengaluru
- [Smart homes to cities with EZ Connect](#)
India Electronics Week 2016, Bengaluru
- [Automating Marvell's Workflows with 88MW302](#)
Connect 1.0 at Marvell Semiconductors
- [Beacons, Eddystone and the Physical Web](#)
DroidCon 2015
- [Hardware Dashboard for DevOps](#)
Deccan Ruby Conference 2014
- Talks on [Embedded Linux](#), [Mapping](#)
Pune Smart City Hackathon
- Conducted at PICT, Pune
 - [Recent Advances in IoT](#)
 - [ARM Microcontrollers and Wi-Fi for IoT](#)
 - 2 Day bootcamp : Connected Devices with Makerville Knit
- [4 Horsemen of the IoT](#)
- [WebGL API to render interactive graphics in HTML5](#)
- [Hands on with Beaglebone Black and OpenCV](#)
Workshop at Pune-IoT hackerspace
- [Building Robot Cars](#)
Co-conducted a workshop on building an Arduino based rover
- [Exploring Amazon AWS IoT, IoT-Pune meetup. Video](#)

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Education

DATES	2010 - 2014
QUALIFICATION AWARDED	Bachelors
PRINCIPAL STUDIES	Computer Engineering
INSTITUTION	<u>Pune Institute of Computer Technology</u>
DATES	2008 - 2010
QUALIFICATION AWARDED	Higher School Certificate
INSTITUTION	<u>Fergusson College</u>

Awards and Certifications

- Completed [YCombinator Startup School](#) online course
- [App Enabled Home Challenge](#)
Stood first in a challenge centred on defining the interface and hardware standard for the home of the future.
- [Hitachi Programmer's Marathon](#)
Stood first in a C/C++ coding competition in which over 8000 students participated
- Opus at PICT Impetus and Concepts 2011
Stood first for the project "[Simple hand gesture recognition to control a media player](#)"

Publications and Peer Review

- [Smartphones and off-the-shelf hardware for 3D scanning](#)
Paper Published in IJSER Volume 4, Issue 12, December 2013 Edition (ISSN 2229-5518)
- Peer reviewed [Android on the Beaglebone Black](#) for Packt Publishing
- Peer reviewed [Beaglebone Black Cookbook](#) for Packt Publishing

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Skills & Competencies

LANGUAGE SPOKEN	English (ILR-5), German (ILR-2)
PROGRAMMING LANGUAGES FRAMEWORKS/PLATFORMS	C, Python, Bash, JavaScript/NodeJS AWS, Alexa Voice Service, Serverless
RAPID PROTOTYPING EDA/CAD	CNC, 3D printing, PCB etching KiCad, SketchUp, OpenSCAD

Volunteering and Extra Curricular

- Mentor for Google Summer of Code students at beagleboard.org
2015, 2016
- Mentored and sponsored student project - [Canacopa](#) : Physical web framework for retail stores.
2015 - '16
- Volunteer at local hackerspace Doo
Organised and conducted workshops and meetups on topics like 3D printing, Arduino, Bluetooth.
2013 - '15
- Member of the PICT Basketball Team
2010 - '13
- Member of the PICT [NSS](#) Unit
2010 - '13
- Member of PICT Student Council
2011 - '12
- Member of the Fergusson College Volleyball Team
2009 - '10