

VIGHNESH BIRODKAR

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EDUCATION

B.Tech Computer Science & Engineering — GPA 8.05/10 <i>National Institute of Technology , Goa</i>	<i>2010 - 2014</i>
Class XII — 75% <i>Shree Damodar HSSC, Goa</i>	<i>2008 – 2010</i>
Class X — 90% <i>A.J.De Almeida High School, Goa</i>	<i>2007 – 2008</i>

WORK EXPERIENCE

Software Development Engineer , <i>Samsung Research India</i> • Embedded application development in Printers Division.	<i>June 2014 - Current</i>
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INTERNSHIPS

Google Summer of Code Student , <i>Python Software Foundation</i> • Designed Region Adjacency Graph Data structures from scikit-image. • Implemented Region Adjacency Graph based segmentation algorithms.	<i>June 2014 - September 2014</i>
Google Summer of Code Student , <i>SimpleCV</i> • Designed a Display System for local applications in Python. • Designed a Display System for remote applications using Python, HTML and Javascript.	<i>June 2013 - September 2013</i>
Summer Intern , <i>IIT Bombay</i> • Designed a Visual Programming Environment for Arduino Boards • Ported the Visual Programming Environment for Windows, Linux and Android	<i>May 2013 - June 2013</i>

PUBLICATIONS

- Manjunath, M.; Samuel, A.; Birodkar, V.; Beg, M.O., "A novel proposal for Electrical Load Online Census (ELOC)," *India Conference (INDICON), 2013 Annual IEEE* , vol., no., pp.1,6, 13-15 Dec. 2013

PROJECTS

- Developed an Online AC Circuit Simulator for *ekShiksha*. [ActionScript 3.0]
- Developed an Automatic Subtitle Finder for Movies. [Python]
- Developed *Gravity Shift*, a Physics based Puzzle game for Android. [Java, Android]
- Developed an In-Memory Data Store implementing a subset of Redis Protocol. [C]

TECHNICAL SKILLS

Programming Languages :

C, C++, Java, Python, Javascript, Unix Shell-Script, MySQL, ActionScript 3.0, PHP

Libraries :

scikit-image, numpy, scipy, OpenCV, SimpleCV, Android SDK, Flex SDK, processing.js, PIL, Box2D

Platforms and Environments :

Windows, Linux, git, Eclipse, Matlab, Flashbuilder, Dreamweaver

EXTRA-CURRICULAR ACTIVITIES

- Employee of the month in Samsung at October 2014
- Secured 1st place in *Automata* 2011 and 2012, a National Level Image Processing based Robotics Challenge at Engineer, NITK Surathkal.
- Secured 2nd place in *Anaglyph* 2012, a National Level Stereo-Vision based Robotics Challenge at Quark, BITS Goa
- Best App Idea Award at Android Hackathon for *Glint*, a Photography application for Light Painting.