ATUL R

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http://techbitsfromatul.blogspot.in
http://handgesturepc.blogspot.in

Github Link: https://github.com/master-atul

Objective

- To work in a professional company to gain industry experience/exposure in order to enhance my existing knowledge and skill set.

Skill set

Programming/Scripting Languages:	C , C++ , Java , Python , PHP , HTML ,CSS , JavaScript , SQL , XML
Libraries/Platforms	Android Application Development, QT GUI Development – C++ Open CV – C++ OPENGL 2.x Basics Raspberry Pi Development Arduino Windows API for Desktop Apps
Areas of Interest	Web Development , Mobile App development (Android), Augmented Reality , Image Processing , Wearable Computing and Robotics , Machine Learning , Graphics and Video Design.
Tools Known	Visual Studio , Eclipse , Adobe Dreamweaver , Adobe Photoshop , Blender 3D , Adobe After Effects , Adobe Audition , Microsoft Office Suite
Operating Systems	Windows , Linux (Debian), Android

Work Experience

1. **Internshala.com** January 27th— April 2013

   Post **: Design Intern**
   - Developed Web content for www.internshala.com

2. **Gnostice Information Pvt Ltd** - June –July 2014

   Post **: Software Developer Intern (Java)**
   - Developed modules for Gnostice Document Conversion Product.
     Modules were designed for conversion of DOCX (MS WORD 2010) to PDF in Java.

Certifications

- Design and Analysis of Algorithms, MEC course by Microsoft Research.
- Interactive programming in Python, a course by Rice University on Coursera

Education

Rashtreeya Vidyalaya College of Engineering — Mysore Road, Bangalore ,560059

Pursuing B.E. 4th Year Computer Science & Engineering

Semester	CGPA
VI	8.2
V	8.5
IV	8.65
III	8.83
II	8.95
I	9.0

Current Aggregate GPA: 8.64

Kendriya Vidyalaya Hebbal — Mekhri Circle ,Bangalore
11th & 12 std — 2010-2011

- **12th Board -CBSE**- **93.8 %**
  (Computer Science – 98/100)

Air Force School Jalahalli Bangalore — Jalahalli East ,Bangalore
10th Std — 2009

- **10th Board -CBSE**- **94.8%**

Honors/Awards

- 1. Team Lead of Project Jatayu that won Rs 50,000/- as cash awards at Unmaned Aerial Robot Challenge (SUAS 2014) held at Naval Base , Maryland USA on 17th June 2014.
- 2. Won Hackathon at MSRIT (Mojojo Hackathon) 2014.
- 3. National Finalist at Microsoft Hackcon ’14 Hacking Competition out 240 Teams all over India.
- 4. Won 2nd Prize in Coding Competition at BNMIT,Bangalore Fest TATVA -2013.
- 5. Won 3rd Prize in Line-Follower Competition in NMIT,Bangalore Fest Sero 2013.
- 6. Top 10 developer award at Nokia Student Hackathon #CODE at PESIT 2014.
- 7. Web Developer at 8th Mile 2014 and 2012 (College Fest) in RV College of Engineering, Bangalore
- 8. Post of Animator in Vrithanth (Computer Club) of RV College of Engineering, Bangalore.
- 9. Post of Web Admin and developer at Vritanth (CS Club) at RVCE.
- 10. Student Editor and Designer for Computer Science Department ,RVCE,Newsletter for 2013.

During 11 & 12th Std:

- 11. Selected For Regionals in Jawaharlal Nehru Science Fair 2010 For Kiner Humps (Explained Below).

Projects Developed/Designed:

Technical:

- **Web Sites Developed:**
    a. **8thmile.rvce.edu.in/2014/** - Website for RVCE biannual Fest 8th Mile 2014– The website is implemented with full parallax scroll design.

    b. **Vritanthrvce.org –** Website for Technical Club of CSE ,Dept RVCE

    c. Vritanthrvce.org/googleit – Website developed for a google event (Online Quiz) at RVCE

    d. Concretefair2013.in – Website developed for fest of civil dept, RVCE

- **Project Jatayu – www.projectjatayu.com**

  Team Lead at Project Jatayu.

  Project Jatayu is a Team of Student from multiple engineering disciplines who work on research and development of Advanced Unmanned Aerial Vehicles. It is a college funded project.

  The UAVs developed are capable of autonomously (**self controlled**) carry out waypoint navigation , Image or Target detection and Wireless data Transmission along with Live video surveillence. The team won Rs 50,000 / - as cash award at Student Unmaned Aerial Robot Challenge (SUAS 2014) held at Naval Base , Maryland USA on 17th June 2014.

- **MicroJarvis – http://handgesturepc.blogspot.in**

  Controlling entire Computer with only hand movements and gestures.

  Using MicroJarvis one could easily control mouse movements, music players,presentations, web browsers,document readers, text editors,practically everything using only hands.The only input device required was webcams which usually comes integrated with the modern day laptops.

  The Solution emphasizes on external hardware independent gesture control unlike Microsoft Kinect , Leap Motion ,etc which rewuire expensive hardware.

- **Android App - Open Source File Broadcast App**
  Open Source app which could be used to transfer files, music,etc from an Android Phone to any other devices like Iphone, Windows Phone , PC ,etc (Platform Independent) . The app achieves this by creating a Http webserver on the phone , thus essentially making the phone a website to which other devices can connect to via Wifi , Data Connection ,etc.
  The app source could be found at:

  https://github.com/BucketDevelopers/Flash-file-transfer

- **Augmented Reality Project – Virtual Hat**
  The project basically places a Hat or a desired 3D object onto a persons Head by using head tracking (OpenCV Image Processing) and OpenGL .

  https://github.com/master-atul/webcamaugreality

- **Autonomous Quadcopter-** The Quadcopter is a multirotor aerial robot. Autonomous quadcopters are capable of carrying out flights without any RC control .

- **Line Follower Robot using Arduino.**

  Two DC Motors are used for moving the bot. Five IR sensors along with an Arduino to control its movements on the track. PID is used for effective turning of the bot. The Robot won 2nd Position at Impulse ECE Dept Fest for a Line Follower Event.

  Video Link:

  http://youtu.be/w1ZMSbkf65A

- **DTMF Controlled Robot using Arduino**.

  A DTMF module connected to an Arduino is used to decode the DTMF tones coming from a phone.

  Based on the decoded tone, the movement of Robot is controlled.

- **Kiner-Humps:** Generation Of Electricity From Moving Vehicles using Specially Made Humps on The Road.

  A specially designed hump is made which is supported over a spring system. Now this hump is in turn connected to a Rod below the ground.When a vehicle moves over the hump, the rod moves down. This rod is a magnetic rod which moves in a coil of copper wire which generates electricity via electromagnetic induction.

- **Android Lock Screen Cracker/Remover via ADB.**

  A android batch program to break the screen locks in android by exploiting usb debugging.

Ongoing Projects:

- **Interpreter – A Speech translator device.**

  Speech Translator which could translate a spoken sentence from one language to another in realtime. Using combination of speech recognition , translation and synthesis , this device can translate in realtime a spoken sentence from one language say Hindi to another Language (Eg: English)

  https://github.com/BucketDevelopers/speechtranslator

- **Gaming Clothes – A Virtual Reality Gaming Console.**

  A set of cloth with embedded sensors which could be worn to track the motion of different parts of the player's body. Depending on the body motion the player can control the game characters actions.

Design Projects:

- 8th mile 2014 website
- Designed Recruitment Posters for Chimera and ASHWA Student Projects
- Designed Various Posters for 8th Mile 2012
- Designed Website for Vrithanth and 8th Mile 2014.
- Many More Interesting Design Works Can be Found in My Dropbox Folder:
  https://www.dropbox.com/sh/zb7o6x5lmaefh0u/g5C1GhdHFx

Special Interests

- Playing Cricket
- Playing Chess and Table Tennis.
- Computer Games
- Theming Android and Windows
- Robotics & Open Source Projects.