**RAKESH TAMMINENI**

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**ACADEMIC QUALIFICATION**

**Bachelor of Engineering in Electronics and Communication Engineering,** Govt. S.K.S.J.T.I Coimbatore, affiliated to Visvesvaraya Technological University, location, Aggregate: 76%, June 2017

**WORK EXPERIENCE**

**Software Developer -Development, Adisys Technologies (R&D) Pvt. Ltd, Location September year- till present**

**Job Responsibilities:**

**PROJECTS**

**Intelligent Driver Assistance, Location, duration from when to when in mm/yy format**

* **Brief Description:** Created a processor based control system that would intimate the driver of the obstacles ahead, limiting the speed in speed restricted areas, and helping to overtake
* **Individual Role:** Worked as an active member in a group of 3 people and contributed in coding and development process
* **Tools Used:** MATLAB, Embedded C, C++, Windows 8 and Arduino ide

**Gear Display system in Bikes, Location, duration from when to when in mm/yy format**

* **Brief Description:** Created a gear display system using 8085 microprocessor, a hall sensor and display. The hall sensor would detect the motion of the gear rod and would take the corresponding action of counting up or down
* **Individual Role:** Was a team leader and also the spokesperson of the team of 4,
* And was the main lead in coding
* **Tools Used:** Embedded C and Masm

**Conversion of non-touch screen to touch screen, Location, duration from when to when in mm/yy format**

* **Brief Description:** Made a non-touch screen monitor into a touch screen monitor using an accelerometer that enables to read the 3 coordinates, analog to digital convertor converts the obtained signals and gives it to the processor where corresponding action is taken
* **Individual Role:** Worked with this project in the earlier stage of my under graduation, did the project as the whole and sole of it
* **Tools Used:** accelerometer, analog to digital convertor and a Processing box

**GeoFence creation and Monitoring, Location, duration from when to when in mm/yy format**

* **Brief Description**: Enabling the parent to create/draw a fence on the map, and enable the parent to activate and monitor the kid’s location in real time
* **Individual Role:** Worked on the front end, data base creation and real time monitoring of the system
* **Tools Used:** Html, CSS, bootstrapping, JavaScript, MySQL, PHP

**Image Detection And Alerting, Location, duration from when to when in mm/yy format**

* **Brief Description:** To check if any element is stuck after the molding process in the molding machine
* **Individual Role:** Worked on creating a region of interest (roi) and processing that region to check if any element is stuck and if stuck alerting the employees
* **Tools Used:** Python, OpenCV, Raspberry pi

**Multiple Pick Up Points in The Way from Source to Destination, Location, duration from when to when in mm/yy format**

* **Brief Description:** To enable real time monitoring for parents and the driver along all the points in between source and the destination
* **Individual Role:** worked on the front end and helped in developing the real time monitoring system
* **Tools Used:** Html5, CSS, Ajax, JavaScript, MySQL, PHP

**Real Time Monitoring of Energy Meters and Updating, Location, duration from when to when in mm/yy format**

* **Brief Description:** To check if the energy meter in the industry is working or not and if not working alert the employees and if working see if it in the norms and creating a UI
* **Individual Role:** Worked on creation of data base and real time monitoring and creating a user experience for the employees
* **Tools Used:** Html5, CSS, Ajax, JavaScript, MySQL, PHP, embedded devices programming

**Real Time Object Detection with Deep Learning, Location, duration from when to when in mm/yy format**

* **Brief Description:** To see if any object is entering our region of interest in real world , if so then blow an alarm
* **Individual Role:** Working on training a model for our dataset and helping it to detect all the models of our interest
* **Tools Used:** Python, OpenCV, deep learning, neural networking, computer vision

**PAPER PRESENTATIONS**

**WORKSHOPS ATTENDED**

**TECHNICAL SKILLS**

* **Languages:** C, C++, embedded C, MATLAB ,Verilog, VHDl, JAVA With Swings, J2EE,Html, CSS, Python, deep learning, computer vision, MySQL , php ,.net ,cSharp
* **Operating systems:** Microsoft Windows, Ubuntu
* **Web Programming/Scripting:** JavaScript, JSP, ASP.net
* **Tools:** Turbo C, pspice, Solid edge s4, Xilinx ise, Cadence, Masm, Keil, CCS Studio, Matlab, Arduino ide, eclipse, Anaconda ,python ide ,Visual Studio , [tableau](https://www.tableau.com/)

**TRAININGS ATTENDED:**

* Sixth Sense Technology, Conducted by Technophilia Systems and Robotics & computer application institute, USA,UVCE, Bangalore
* Entrepreneurship Awareness Drive, Conducted by Entrepreneurship cell, IIT Kharagpur, Jnana Bharthi Auditorium
* Ethical Hacking and Python Scripting, GSKSJTI, Bangalore
* Climate Change Quiz 2015 and Climate Sciences, Conducted by Divecha Centre for climate Change, Indian Institute of Science, J.N Tata Auditorium, IISC, Bangalore

**EXTRACURRICULAR ACTIVITIES**

* College Sports Co-ordinator
* Lead the college chess team from the front and were placed in rank 12th in VTU
* National taekwondo bronze medalist in 2009 and twice state gold medalist in the years 2007-2009
* Have remained the chess champion of the college for 3 successive years
* Was the coordinator for cricket in college annual sports and have also been the director of many cultural and non-cultural activities in school and colleges
* Unanimously elected as the class representative for 4 consecutive semesters
* Made a project to display the gear counts in bikes
* Won the best mini project award in the college
* Played for college cricket team and football and chess team for 4 consecutive years