**Personal Information**

Name: **Akula Rama Krishna**

Years of Experience: **1.8 Years**

**Executive Summary**

* Working at Sasken Technologies Ltd., as an **Engineer – Firmware**.
* Proficient in programming in C++, C and Python languages.
* Embedded software development using Vision SDK Framework on Texas Instrument TDA2xx hardware.
* Linux Application development in C.
* Using Machine/Deep Learning tools such as Tensorflow, Keras and PyTorch and Pandas Framework/Libraries.
* UI development using the HMI tool EB Guide.
* Won the spot award for bringing up LIDAR on Autoware ROS.

**Project Summary**

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| --- | --- | --- | --- |
| **No.** | **Project Name** | **Role/Competency** | **Tools, OS** |
| 1 | **Auto ADAS Solution** | Developer | Tools: Eclipse, OpenCV, Anaconda  Operating System: Linux |
| 2 | **In-Vehicle Infotainment System** | Developer | Tools: EB-Guide  Operating System: Linux |

**Employment History**

|  |  |  |
| --- | --- | --- |
| **Employer Name** | **Designation** | **Duration** |
| Sasken Technologies Ltd. | Engineer - Firmware | Nov 2018 - Till Date |

**Education Details**

|  |  |  |  |
| --- | --- | --- | --- |
| **University** | **Degree** | **Specialization** | **Duration** |
| Jawaharlal Nehru Technological University, Kakinada | Bachelor of Engineering | Electrical & Electronics | Sep-2014 to May-2018 |

**Project Details**

**Auto ADAS Solution**

This project implements Advanced Driver Assistance System with features such as Driver Drowsiness detection, Traffic signage recognition, Forward collision warning and Lane departure warning. Client is an Automotive Research company in Japan.

**Contributions**:

* Brought up LIDAR on Autoware Robot OS.
* Implemented the pre-processing and post-processing to interface with the middleware Machine Learning layer.
* Evaluated available Chatbot applications, Selected FueTrek app and implemented the scenarios.

**Duration**: Jun-2019 till date

**Tools**:

* OpenCV, Anaconda

**Operating System**:

* Linux

**Languages**:

* C, C++ and Python

**Technologies**:

* Multimedia – Image processing

**In-Vehicle Infotainment System**

This project is aimed to develop an Android based IVI for cars. This is developed by the Engineering R&D practice of Sasken.

**Contributions**:

* Designed the Driver console (cluster) with EB Guide.
* Using the GTF plugins, implemented cluster communication mechanism.

**Duration**: Dec-2018 to May-2019

**Tools**:

* EB-Guide

**Operating System**:

* Linux

**Languages**:

* C++ and C

**Other Achievements**

* **Spot Recognition Award**

Won the spot award for bringing up LIDAR on Autoware ROS.

* **Sasken Coders League**

This is a platform where programming challenges are posted periodically. Sasians willing to sharpen their programming skills could solve those problems using any high-level programming language. I have solved all the problems posted so far in C programming language and am ranked **7th**.

* **Code Warriors – Online Hackathon**

‘Code Warriors’ is an organization-wide online hackathon. I participated in 3 of the 4 Code Warrior editions rolled out in the last one year and ranked **4th**, **9th** and **4th** respectively.

* **Programming Competency Assessment**

This is the online programming language assessment rolled out to engineers using the **Mettl** platform ([https://mettl.com](https://mettl.com/)). I scored **71%** in Python programming assessment.