Prasath Premapalan

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Date and place of birth: 17.12.1990, Colombo, Sri lanka
Nationality: Sri Lankan

Work Experience

March 2020 – Aug 2020

Research Assistant
AKKA GmbH & Co. KGaA, Sindelfingen, Germany
- Implementation of feature-based Computer Vision techniques in developed annotation tool
- Development of functional algorithms for object interpolation in dynamic and stationary conditions
- Validating the annotation tool and implemented functions

Tools: *Python, PyQT, OpenCV, Numpy, Tensorflow, Keras*

July 2019 – Feb 2020

Master Thesis
AKKA GmbH & Co. KGaA, Sindelfingen, Germany
- Theme: Methodology and tool to analyze and improve manual annotation behavior
- Prepare and develop experiments to analyze manual annotation
- Compare performance with automated annotation methods
- Provide annotators to analyze if the performance can be enhanced
- Design user friendly annotation tool Graphical User Interface (GUI)

Tools: *Python, PyQT, OpenCV, Pandas, Keras, Numpy, SQL*
Score: 1.2/ 5.0

March 2019 – June 2019

Software developer (Intern) in HiL-Testing
AKKA GmbH & Co. KGaA, Sindelfingen, Germany
- Integration of a robot arm (Dobot Magician) with the PROVEtech-TA Toolchain through different interfacing models
- Creation of a PROVEtech-RE Generic Application in the programming language C ++
- Implementation and commissioning of Dobot magician arm with PROVEtech-RE in International trade fair

Tools: *Python, ROS, C++, LabVIEW (ROS tool), PROVEtech-RE*

Aug 2013 – Dec 2015

Mechanical Engineer
MRF limited
- Responding to breakdowns and diagnosing faults
- Product development
- Calibrate machines to meet production goals
- Monitoring and commissioning plant and systems

Tools: *PLC-Programming, SAP, CAD, MS Office*

Education

Sept 2017 – Aug 2020	**Master of Science** Hochschule Ravensburg -Weingarten, Germany Major: Mechatronics *CGPA: 2.1/ 5.0*
July 2009 – May 2013	**Bachelor of Technology** National Institute of Technology, Trichy, India Major: Mechanical engineering *CGPA: 7.21/ 10.0*

Projects

Computer Vision Project	**Emotion Detector** Development of different human emotions (facial expressions) detection algorithm with Computer Vision techniques Tools: *Python, Numpy, Tensorflow, Keras, Open CV*
Hardware Project	**System Analysis and Simulation with LabVIEW** Implementation of a VI that adds sine waves to simulate a telephone with multi-frequency signaling Tools: *LabVIEW 2017*
Volunteer Project	**Autonomous Parking** Parallel parking and Bay parking of the mobile robot by using Arduino Uno and ultrasonic sensors Tools: *Embedded C*

Skills

Languages	English (Professional) Deutsch – B2 (Professional) Tamil (Mother tongue)
IT	Python (Pandas, Numpy, Scipy, Scikit-learn, OpenCV, PyQt, dlib) C/C++, Embedded C LabVIEW, MATLAB/Simulink SQL Robot Operating System (ROS) HTML5, CSS3, JavaScript Deep Learning (Tensorflow, keras) Microsoft Office (Word, Excel, Powerpoint) Git-Tools Power BI, Tableau Windows, LINUX

Hobbies

Playing Cricket, Swimming, Sketching, Playing flute and Photography

Pfaffenwaldering -Stuttgart, 01.01.2021