MANAJ MOHAPATRA

Software Engineer

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EXPERIENCE

Software Engineer

IMH Team, Texas Instruments India

Aug 2016 - Present

♥ Bangalore,India

- · Micro-drivers for light sensors
 - Software and Hardware
 - * Programming Language: C
 - * Tools: Firmware Development Kit, GCC
 - * Devices: ALS, Color sensor
 - Motivation
 - * The development involves APIs building, device bring-up. calibration, data processing, verification and certification
- Color correction tool
 - Software and Hardware
 - * Programming Language: Python
 - * Device: TI color sensor
 - Application
 - * The tool adjusts white balance of live video from camera depending upon the readings received from color sensor
- Lead developer of lab automation tool
 - Software
 - * Programming Language: Python
 - Applications
 - * Write test programs for device
 - * Data capture, visualization, analysis and logging
 - * Device configure and instruments control
 - * Custom GUI for better representation
 - * Compiled executable for customers
- Register mapping tool
 - Software
 - * Programming Language: Python
 - Applications
 - * Captures device information during design cycle
 - * Stores information in an efficient data structure which can export information in required formats like RTL, C, C++, IP-XACT and HTML etc
 - * Provides an ecosystem that allows to create, modify and navigate the data structure
- Pick and Place
 - Software and Hardware
 - * Programming Languages: Python, G-Code
 - * Board: TinyG Controller
 - Applications
 - * Automate device testing in tester platform
 - * Device status detection like present, absent, tilt using computer vision algorithms

EDUCATION

Master of Technology VLSI Design & Embedded Systems National Institute of Technology, Rourkela

May 2015 - May 2016

Bachelor of Technology **Electronics & Instrumentation**

National Institute of Technology, Rourkela

May 2011 - May 2015

AREA OF INTEREST

- Embedded Systems
- Automation and application development

SOFTWARE

C, C++, Python, Git



Markdown, Qt, Bash



HARDWARE

OPT3004, 3007, 4001, 4048



FTDI devices, ZCU-702



AWARDS

Gold Recognition 2019



Significant reduction in device bring up time by combining multiple device communications into single transac-

Automation Champion 2017-2018

Development and integration of Custom GUI platform for in-house automation tool

Silver Recognition 2017



Identify gaps and improve user experience by adding new features in register mapping tool which increased productivity