Chaitanya Tejaswi ❷.❷.in.②.®.₩

Summary

An Electronics & Communication (EC) graduate with a demonstrated exposure in Embedded Systems, Image Processing, and Python-based development; I am currently looking for an opportunity in similar domains.

I have worked extensively with - AVR/ARM microcontrollers, implementing source codes in ASM/C; OCR & QR Codes in addition to conventional image processing; Python3 for creating GUIs & shell utilities, web applications (using Flask/Selenium), and machine learning scripts (using SciPy stack).

I'm open to all software development roles.

Education

2018

June 2014 - Jun 2018 BVM Engineering College, VV Nagar (GTU)

• Completed Bachelor of Engineering (B.E.) in Electronics & Communication with a CGPA of 8.35.

June 2014 OSEM High School, Morbi

• Completed HSC from CBSE Board with an aggregate of 80.2%.

June 2012 Delhi Public School, Gandhinagar

• Completed SSC from CBSE Board with a CGPA of 9.8.

Publications & Invited Talks

21st April, 2020 Creating eBooks from Webpages using Python [SLIDES] [VIDEO]

A talk to get you started with web scraping in Python using minimal external dependencies. We will write a script that scrapes online court judgments and creates Android/Kindle compatible ebooks from them.

A Novel Approach of Tesseract-OCR Usage for Newspaper Article Images

A novel approach for optical character recognition of newspaper article images (captured as

smartphone camera images) is presented, with evaluation based on two sets of images; both captured using the same camera, under varying lighting conditions.

[Chaitanya Tejaswi, Bhargav Goradiya, Ripal Patel; A Novel Approach of Tesseract-OCR Usage for Newspaper Article Images, Journal of Computer Technology & Applications. 2018; 9(3): 24–

Projects (Academic)

April, 2018 Pico-Projector based Automation

Guide: Bhargav Goradiya, BVM VVNagar

Implemented Classroom Automation (for teachers) using DLPDLCR2000EVM pico-projector
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module & Raspberry Pi 3B as server.

October, 2017 OCR-based Personal Assistant

Guide: Bhargav Goradiya, BVM VVNagar

• Implemented a text extractor & text reader module for newspaper article images using Tesseract

OCR & OpenCV, implemented in Python.

April, 2017 QR Code-based information system using QPython3 IDE on Android devices

Guide: Kaushal Patel, BVM VVNagar

• Wrote sample codes for automation using QR codes.

October, 2016 GSM Communication with AVRµc

Guide: Anish Vahora, BVM VVNagar

• Implemented serial communication between AVRµc (ATmega32) & GSM Module (SIM300).

April, 2016 Filter Implementation using MATLAB

Guide: Robinson Paul, BVM VVNagar

• Implemented lowpass and bandpass filters in MATLAB as an application of Sampling Theorem.

April, 2016 Keypad & ADC/DAC Interfacing with 8085µp

Guide: Bhargav Goradiya, BVM VVNagar

Interfaced 4x4 keypad & ADC/DAC (0800/0808) with Intel 8085μp using 8255 PPI.

October, 2015 Mod-100 Counter

Guide: Anish Vahora, BVM VVNagar

• Implemented a Mod-100 Counter using IC-7490 (Decade Counter) & IC-74248 (BCD to 7-segment Decoder) that loops through 00-99.

Projects (Personal)

Skills

Languages (Programming) Languages (Spoken) Software Stack

Python, C/C++, ASM (AVR, x86), PowerShell, HTML/CSS, JS.

English, Hindi, Gujarati.
Python (SciPy stack, OpenCV, Flask, Selenium).

References

Dr. Bhargav Goradiya Prof. Anish Vahora

Head of Dept., Electronics & Communication Dept. (BVM Engineering College, VVNagar) Asst. Professor, Electronics & Communication Dept. (BVM Engineering College, VVNagar)