Pritom Gogoi

Instrumentation Engg. Graduate

https://rustyelectron.live

pritom.gogoi101@gmail.com | pritom16-392@aec.ac.in

INTERNSHIPS AND TRAINING

IIT, GUWAHATI | Research Intern
Oct 2020 – Current | Guwahati, AS

I am currently working under Dr. Manas Kamal Bhuyan and Mr. H. Pallab Jyoti Dutta for developing an algorithm for hand keypoints localization based on Convolutional Pose Machines and Attention Augmented Convolutional blocks.

UNIVERSITY OF WARWICK, UK | Visiting Student
Feb 2020 – Mar 2020 | Coventry, Warwickshire

I received a scholarship under the Winter Overseas Fellowship program and was able to work under Dr. Layi Alatise and Dr. Jose Ortiz Gonzalez for developing a LabVIEW test setup for evaluation of the reliability of SiC Power MOSFETs.

IIIT, GUWAHATI | Summer Intern
Jul 2018 – Sept 2018 | Mirza, AS

Worked under the guidance of Dr. Rakesh Matam to develop an Intelligent Parking System that detects the presence of a vehicle using an array of sensors and a novel heuristic algorithm.

PUBLICATIONS

An UAV assisted Multi-Sensor based Smart Parking System
IEEE International Conference on Computer Communications
6-9 July 2020 // Ottawa, Canada

Object Detection and Tracking Turret based on Cascade classifiers and Single Shot Detectors
2020 International Conference on Computational Performance Evaluation
NEHU, Shillong, India

PROJECTS

Image Processing Based Object Tracking Turret
- The proposed device was to be able to detect and track COCO objects using a CNN model. The motion of the tracking turret was controlled by PID controller.

Timer-Controlled Automatic Charger
- designed a automatic charger using the ESP8266 microcontroller which was capable of controlling phone charger or any AC appliance via WiFi webserver or manual device controls.

BitOverflow - Open Source Contribution Event
- organized this event which is similar to Kharagpur Winter of Code or GirlScript Summer of Code where participants work on the project of their choice and make valuable contributions to open source projects.

MOOCS AND CERTIFICATIONS

Fundamentals of Digital Image and Video Processing | Coursera

Microprocessors and Microcontrollers | NPTEL

Digital Circuits | NPTEL

Introduction to Biostatistics | NPTEL

CLUBS AND SOCIETIES

Indian Society for Technical Education | AEC Chapter
Member - Feb 2019

AEC Coding Club
Asst. Team : Aug 2017 - Jul 2018 | Mentor : Aug 2018 - Jul 2019

Techxom 2019
Technical Advisor and Event Organizer

PHOTOGRAPH

EDUCATION

ASSAM ENGINEERING COLLEGE
B.E. in Instrumentation Engg.
Graduated Sept 2020 | Guwahati, AS
Percentage: 84.13

SALT BROOK ACADEMY
Higher Secondary (+12)
Grad. April 2016 | Dibrugarh, AS
Computer Science Elective
Percentage: 86.6

ST. VINCENT'S HIGH SCHOOL
HSLC (+10)
Grad. May 2014| Jagun, AS
Percentage: 87.6

LINKS

Github:// **rusty-electron**
LinkedIn:// **Pritom Gogoi**
Medium:// **kickstart7962**
Twitter:// **@rustyelectron**

SKILLS

PROGRAMMING

Over 4000 lines:
Python • C++ • C • Matlab

Over 2500 lines:
Assembly • Java • Bash

Familiar Tools and Frameworks:
Flask • Linux • Vim • HTML5 + CSS • OpenCV • Git • TensorFlow • PyTorch • LaTeX • LabVIEW • KiCAD • Keil • PlatformIO

COURSEWORK

UNDERGRADUATE

Digital Image Processing
Embedded Systems
Machine Learning
Digital Electronics
Algorithms and Data structures
IT Security