BARATH KUMAR R

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With a motive to learn new things every day, my professional and personal interests match. I am looking for opportunities to keep challenging myself and gain valuable insight on innovative technologies.

EXPERIENCE

Product Development Engineer at Centrado Tech Solutions Pvt. Ltd.   August 2020 - May 2021
- Responsible for setting up of IOT, Surveillance Drone and 3D Printing Labs (Atal Tinkering Labs) in 20+ schools as part of NITI Aayog, a Govt. of India initiative
- Developed multiple IOT projects using educational microcontroller boards like Arduino and Raspberry Pi
- Guided a team of faculty and instructors to learn and execute microcontroller paradigms in a lab environment and enable students to participate in various national level competitions
- Collaborated on SEO and other Digital Marketing activities for the company
- Worked on the company's e-commerce website redesign using Wordpress

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EDUCATION

Bachelor of Technology in Electronics and Instrumentation Engineering   2016 - 2020
SASTRA Deemed to be University, Thanjavur, Tamil Nadu | CGPA: 6.566

Courses : Digital Electronics, Signals and Systems, Microcontrollers, Microprocessors, Sensors and Signal Conditioning, Robotics and Automation, Digital Signal Processing, Biomedical instrumentation

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PROJECTS AND PUBLICATIONS

Smart Weather Monitoring System
Embedded C | STM32F401RBTx Microcontroller
- Built a low-latency weather monitoring system using the UART protocol
- Provided backend cloud server integration and GUI support

Obstacle Avoidance Robot using Raspberry Pi
- Robotic model that navigates in unknown environments avoiding collisions as a primary requirement for any autonomous mobile rovers

On-road vehicle detection and classification using a Machine Learning approach
- Developed a real-time detection and classification of on-road vehicles

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AREAS OF INTEREST
- Internet Of Things
- Embedded Systems
- Digital Marketing

CERTIFICATIONS

Embedded Systems Trainee
Kernel Masters

Python Programming
University of Michigan | Coursera

Introduction to Git and Github
Google | Coursera

TECHNICAL SKILLS

Programming Languages
- C
- Embedded C
- 8085 MCU Assembly Language
- Linux System Programming
- Bash scripting
- Python

Softwares and Technologies
- KEIL
- STM32CubeMx
- Git

ACTIVITIES

Entrepreneurship Development Cell, SASTRA University
Head of Marketing

Organizer of Sankalp - Technical fest, School of Electrical Engineering, SASTRA University

Participant of the Mad Over Marketing and Venture Capitalist Workshops, Eximius, IIM Bangalore

Event Organiser of SASTRA Technology Business Incubator