RIVUKANTA BHATTACHARYA

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- **Objective:**

  Energetic and passionate college student working towards a B. Tech. in ECE at NIT Warangal. Aiming to use my knowledge of digital system design and signals and systems in the internship. I want to embrace my knowledge on Image Processing and CMOS/VLSI also.

- **Education:**
  - Studying B. Tech. 2nd year in electronics and communication engineering in National Institute of Technology, Warangal(2015-present) with CGPA 8.52
  - Completed higher secondary from Ramakrishna Mission Vidyalaya, Narendrapur securing 5th position in West Bengal with 97.2% in aggregate under WBCHSE (2013-15)
  - Completed secondary from Ramakrishna Mission Vidyalaya, Narendrapur with 94.6% in aggregate under WBBSE (2007-13)
- **Position of responsibilities:**
  - Executive member at ECE Association, NIT Warangal
- **Scholarships:**
  - Issuer of merit scholarship for good rank in JEE Mains (under 2000)
  - Awardee of Mamraj Agarwal Rastriya Puraskar for securing 5th position in Higher Secondary examination
  - Felicitated by Govt. of West Bengal for securing 5th position in Higher Secondary examination
- **Projects:**
  - Cyclic Redundancy Checker:
    - ✓ Mar 2017 - Apr 2017
    - ✓ Cyclic redundancy check is an error detecting and correcting process often used in data transmission lines. It is simulated and implemented on Spartan3E board the code being written in VHDL.
    - ✓ Link: https://github.com/brivu7972/Cyclic-Redundancy-Checker-Generator
  - Smart garbage detector and collector:
    - ✓ Feb 2017 - Feb 2017

- ✓ This project is governed entirely by image processing and machine learning. But we did that image processing that ensures the car to move to any object and collect it. The main drawback is it detects every object in its path as garbage!

- Line follower:
  - ✓ Dec 2016 - Dec 2016
  - ✓ Me with my team successfully built a line follower using Arduino Uno and various sensors (ultrasonic, infrared etc.) which can follow any given path of same colour.
- To display the available charge in a Li-ion battery using Arduino:
  - ✓ Nov 2016 - Nov 2016
  - ✓ Using Arduino Uno microcontroller and useful circuitry, we successfully found out the available charge and how much time it needs to get completely discharged, in given Li-ion battery. I and my team also printed the results in a LCD display.
- Digital surveillance system:
  - ✓ Nov 2016 – Present
  - ✓ It is comprised of many aspects such as image processing, on-board processing, machine learning etc. We are still on it to make it a successful one.

➢ **Skills and abilities:**

- In depth knowledge in various programming languages (C, C++, Python, Java)
- Efficiently worked on some microcontrollers (especially Arduino Uno, ESP8266 etc.)
- Proficient in many electronics software (Pspice, Vivado, ISE, Visual Studio) alongside others (Adobe Photoshop, Microsoft Office)
- Worked on different operating systems (Windows, Ubuntu)
- Fluent in English language

➢ **Attended workshops:**

- Smart Technologies for Smarter Living: IoT (2017):
  - ✓ An introduction to IoT with an on-hand workshop was conducted by MHRD, Govt. of India in our college for 2 days.
- DST-Inspire Internship Science Camp (2013):
  - ✓ It was a brief encounter with our daily life uses of science both in theoretical and practical ways on various prospects. Besides it

also helped us to grow some individual as well as collective technical abilities

- **Extra-curricular activities:**
  - Enthusiast in playing and watching football
  - Play indoor games like carom, chess, table tennis etc.
- **Declaration:**
  - I, Rivukanta Bhattacharya, hereby acclaim that all the above-mentioned statements are true to my knowledge.
  - Certificates will be provided on request.