Er. Bipul's Profile

Name: **Bipul Kumar Shahi**
Cont.: 9911495996, 9582318785

- ✓ Experienced in the field of "**IOT & Artificial Intelligence**" and **"Android App Development"** for more than 5 years.
- ✓ **Languages:** C (EMBEDDED C), Java
- ✓ **Software:** AVR STUDIO 4, Atmel Studio 6.1, Eclipse, Anaconda
- ✓ **Concepts:** Embedded programming, OOPS, Communication Protocols, Python.
- ✓ **Systems:** Windows (98, 2000, XP, Vista, 7 & 8).
- ✓ **Hardware:** ATMEL'S ATMEGA (8/16), Xbee, HC-05 Bluetooth Module, Arduino, Raspberry Pi, Intel Edison
- ✓ **Workshops and Training Delivered:** 150+ on technologies namely Embedded System, IOT, AI, ML, Android and Drones
- ✓ **Corporate Training & FDP Delivered:** 15+ on technologies namely IOT, AI, ML, Deep Learning & Neural Network
- ✓ **Area of specialization:**
  - Internet of Things: Good Hands on experience of wireless communication protocols such as 802.15.4 (Zig-Bee), 6 Low Pan, BLE (nrf52832), Sub-1, Wi-Fi and Wired communication protocols such as CAN, MOD, SPI, I2C and Serial, RS232, RS485.
  - Hands on Experience with 8/16/32 bit controllers and processors such as Arduino/Raspberry pi -3 / NodeMCU / Intel
  - Analog Digital sensors and circuits design, PCB layout EMI/EMC knowledge, PCB layout design standards, Breadboard / General purpose PCB prototyping testing, Eagle / Portus tools, Schematic design, Final layout etc.
  - Very good experience in C, C++, Java, Python, Linux, Device drivers, System programming, assembly programming and firmware updates or SOC level programming.
  - Very good exposure of IOT cloud services such as AWS IOT, IBMBlue-mix Watson, Thingworx, Xively, MSAzure IOT, Cayenne, wyliodrin etc.
  - Used and developed "Neural Network" & "Data analysis" Projects using framework "Tensor flow" & "H2O" through "Anconda" Environment.

Experiences:

- ✓ Times Globacom Pvt. Ltd., Delhi - Senior Research Engineer (Embedded System)
  - Sep-2014 to July 2016 (2 Years)
- ✓ Revert Technologies Pvt. Ltd. - Front-end Developer (IOT & AI)
  - Sep 2016 to Dec 2017 (1.5 Years)
- ✓ SkillIT Nation, SkillThon, Delhi - Front-end Developer (IOT & AI)
  - Dec 2017 to Dec 2018 (1 Years)
- ✓ Corporate Trainer & Developer – Freelancer(IOT, AI, Android, Robotics, Cloud)
  - Sep 2016 to Present

Robotics Project Experience during Graduation & Post Graduation

- ✓ Hand Gesture Controlled Bi-pad Robot
- ✓ Android and Bluetooth based automated home
- ✓ DTMF based Industrial Automation
- ✓ Four Leg Walker

Corporate IOT & Artificial Intelligence based projects Experiences:

- ✓ Cancer Prediction Using Data Mining
- ✓ Weather Forecasting Using Data Mining
- ✓ Object Detection using Deep Learning and Neural Network
- ✓ Hand Written Image Recognition
- ✓ Sentiment Analysis using social platform such as Twitter
- ✓ Development of Recommendation system using user last preferences
- ✓ Text mining of any text format database
- ✓ Self-Balancing Robot
- ✓ Mining of customer behavior of any retail shop.
- ✓ Tensor Flow Image Recognition on a Raspberry Pi
- ✓ Recognizing Objects with Deep Learning
- ✓ IOT Based Home Automation
- ✓ IoT Home Security Model

Some Real Time developed Android Apps:

- ✓ Bluetooth Controlled Robot through Android App
- ✓ Home Automation Android App
- ✓ SQLITE Database Related App
- ✓ Text to Speech App
- ✓ Speech to Text App
- ✓ Splash Screen App

- ✓ Audio Recorder
- ✓ Video Recorder and Camera
- ✓ Emergency Calling App
- ✓ Push Up Counter App
- ✓ Calculator
- ✓ Music Player
- ✓ Web Browser
- ✓ OTP Based Application
- ✓ SMS Application and many more…..

Education:

Course - M.TECH
Specialization – Electronics & Communication Engineering
College/University - SGI Group (Deemed University)

Course - B.TECH
Specialization - Electronics & Communication Engineering
College/University – Radha Govind Engineering College