

## **BHATU RAYSING PATIL**

+91 9175825989

[bhatuptl@gmail.com](mailto:bhatuptl@gmail.com)

### **Carrier Objective:**

To work efficiently and effectively as well as grow with a prestigious organization in the field of engineering so as to achieve self-realization and the accomplishment of organizational goals.

### **Employment:**

#### **Latest**

**Organization** : Armament R&D Establishment, Pune

**Duration** : March 2015 to March 2019. (4 years)

**Designation** : Junior Research Fellow.

#### **Previous**

**Organization** : Tata Communications Pvt. Ltd, Pune.

**Duration** : Aug 2013 to Jan 2015. (1 year 5 months)

**Designation** : Associate Engineer.

### **Technical Skills:**

- C programming knowledge on microcontrollers : **8/16/32 bit microcontrollers.**
- Experience in protocol/Interfaces : **I2C / SPI / UART / RS232.**
- Understanding of software module development for **ADC, PWM, Timers, GPS etc.**
- Test equipment like Scope, Analyser & debugging skills software/hardware.
- Hands on IDEs: **Keil UV5 / CCS / MPLAB.**

### **Education :**

- B.E. in Electronics engineering from NMU with 65.85 % in 2013.
- Passed XII<sup>th</sup> with 70.83 % in 2009.
- Passed X<sup>th</sup> with 83.84 % in 2007.

### **Training Attended :**

- Robotics Workshop conducted by Omni Mentors Academy.
- "Diploma in Embedded System Design" - M/s. TechnoScripts, Pune.

### **Project Details:**

#### **1) Armament R&D Establishment, Pune :**

##### **➤Soft Target Munition :**

- **DESCRIPTION** : This is an anti-personnel mine designed for use against human enemy. basically it has four sub system namely
  - i) Receiver
  - ii) Transmitter
  - iii) ID Code Setter (IDCS) &
  - iv) Pulse Generator (PG)

The receiver is able to communicate with IDCS over UART and program the unique ID generated by the IDCS into the internal memory. This unique ID is used for selective actuation and deactivation of PARTH receivers. It is also able to retrieve this unique ID and use it for wireless communication with the PARTH transmitter module.

- **ROLE** : Team Member (Developer & Tester)
- **RESPONSIBILITY** :
  - o Designed, analysis and testing of transmitter patch antenna at 916 MHz for Parth munition transmitter.
  - o Designed, fabricated and tested LED test jigs to monitor the actuation and deactivation commands in the field.
  - o RF link field testing to check wireless actuation and de activation at transmitter side from a distance of 750m at CME and ARDE, Range Area.

➤ **Tank Munition :**

- **DESCRIPTION** : This is an anti-tank land based munition that recognizes the magnetic & seismic signatures of an incoming target of enemy and issues the firing command. Each munition have a unique identity (UID) by which it can be identified. Setting of UID and co-ordinates of mine is done through manual operational (using IDCS) when it is laid.
- **ROLE** : Team Member (Developer & Tester)
- **RESPONSIBILITY**
  - o Contributed in preparation of complete Tank munition block diagram in Visio software.
  - o Segregated and analysis of seismic sensor field signatures using MATLAB.
  - o Functional testing of munition sub systems viz., RF Electronic Receiver module, Transmitter, IDCS, Seismic and tilt module.

**2) Tata Communications Pvt. Ltd.(On Lobo Staffing pay roll), Pune.**

- Handling Operation and Maintenance of Satellite Earth Station.
- Providing support for Various Inmarsat Satellite Mobiles like Inmarsat M / B / Minim / GAN / Fleet-33 / Fleet-55 / Fleet-77 / C / FBB etc.
- Continuous Monitoring of Inmarsat Switch and ensuring that there is no system outage.
- Supporting both Postpaid & Prepaid mode using IN Platform. Handling Activation / Deactivation / Refilling requests and maintaining records of such requests for future

**Personal Details:**

<b>DOB</b>	17.02.1991
<b>Languages</b>	English, Hindi, Marathi
<b>Current Location</b>	Dhule

**Date:**

**Place:**

**Bhatu R. Patil**