**JYOTIDWIP NATH**

Mobile: +91-9582629500 Email Id: jyotidwip.nath@gmail.com;

+91-8586969299 jyotidwip.nath@outlook.com;

**CAREER OBJECTIVE:**

*To work in a challenging position where my skills can be effectively utilized to the fullest extent through long time commitment, contributing towards the Company’s growth and in turn personal growth within the organization.*

**PROFILE SUMMARY:**

* A graduated Electronics and Communication Engineer with a proven track record of maintain, research, testing and producing precision components and systems. Focused with an in-depth understanding of design, development electronic systems and components to required specifications.
* Excellent understanding of & hands on experience in Embedded System applications, QA, Software Testing.
* A high performing creative and enthusiastic person with a diverse range of technical skills; is currently seeking a suitable position with a reputable company.

**ACADEMIC CREDENTIALS:**

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| --- | --- | --- | --- | --- |
| **QUALIFICATION** | **INSTITUTE** | **BOARD/UNIVERSITY** | **YEAR** | **AGGREGATE** |
| B.E. (Electronics & Communication) | Nagaji Institute of Technology & Management, Gwalior | Rajiv Gandhi Technical University, Bhopal | 2006 – 2010 | 65.75% |
| XIIth Std | B.A.E. Junior College, Pathsala | A.H.S.E.C. Guwahati | 2006 | 67.0% |
| Xth Std | Rangia Hr. Secondary School, Rangia | S.E.B.A. Guwahati | 2004 | 73.33% |

**WORK EXPERIENCE: (07 Month’s)**

* **Designation – Embedded System Engineer**

**August’11 – December’11** **Appin Technology Lab, Alwar, Rajasthan, India**

**Responsibility and Key Functional Areas:**

* Provide training on embedded systems, 8051µC family & their implementation.
* Support professional trainees in implementing robotic projects.
* Is responsible for key functional and non-functional aspects in the project.
* Carries out secondary research activities focused on research issues and the competitive landscape.
* Give Seminar, industrial training and Workshop on Niche Technologies (Embedded System & Robotics).
* Rapid prototyping experience in design, deployment of software service solutions based on niche technologies.

* **Designation – Embedded Systems Trainer**

**May’11 – July’11 ATC: CMC Limited, Noida, India**

**Position Responsibilities:** Provide training on embedded systems and robotics; Programming & developing of different types of 8051 based projects; PCB layout design and Troubleshooting of Electronic circuits; Responsible for key functional and non-functional aspects in the project; Root cause and fix system level performance and reliability problems.

**TRAINING/INTERNSHIP:**

1. Completed 6 months certified Diploma program in Embedded System & Robotics from Appin Technology Lab, Guwahati in February, 2011.
2. Completed 45 days Industrial training on GIS & Remote Sensingand Networking and Communication from Assam Electronics Development Corporation Limited (AMTRON), Guwahati in August, 2009.

**COMPUTER SKILLS:**

* Language : C, C++, Assembly language.
* Operating Systems : Microsoft Windows & Familiar with Linux.
* Application Software: MS Office (Word, Excel & Power point) applications.

**FIELDS OF INTEREST:**

* Embedded Systems Software, QA & Testing;
* DSP Signals and Systems, Embedded Real time systems;
* Technical Writing, Business Analysis.

**PROJECTS:**

### Title #1: Cell Phone Operated Robot Using DTMF Technology.

**Abstract:**

* DTMF technology is used to transmit various digital data to control a number of devices installed in a remote place where digital data is first converted to DTMF code which is transmitted to the line. In the receiving end, the DTMF signal is decoded by a decoder to corresponding digital data.
* This project consists of one AT89S52 microcontroller and DTMF decoder (MT8870) attached to the Mobile Phone head-phone out. The mobile is configured as auto answering mode; which attend the call and can receive DTMF signals which is transferred to the microcontroller through head phone output.
* DTMF assigns a specific frequency (consisting of two separate tones) to each key so that it can easily be identified by the electronic circuit. The signal generated by the DTMF encoder is a direct algebraic summation, in real time, of the amplitudes of two sine (or cosine) waves of different frequencies.

### Title #2: Line Follower Robot Using 89c51 MCU.

**Abstract:**

* Line follower robot is a mobile machine employed to sense and follows the black lines that are drawn on the white surface.
* Our processing circuitry based of Atmel 89c51 microcontroller with 12-MHz maximum clock frequency, for path detection and creating control signals for DC motors.
* The principle of the line follower is based on sensing the background surface by making use of IR sensor. The sensors output is given to the input pin of L293D and the output pin of L293D IC is connected to the motors. The L293D IC is having two H-bridges which is capable of rotating the motor in bidirectional.

**Title #3:** **Industrial Automation**.

* Automation is the use of control systems (such as numeric control, PLC, SCADA or HMIs) in concert with other applications of information to control industrial machinery and processes, reducing the need of human intervention.
* The s/w coding is done in **C** language and the generated controlling signals will transmit O/P through LPT (parallel port) and hardware attached to the port. There is a use of timer circuit which helps to overcome man-power in industrial works.
* This project has various real-time applications, for example controlling of electrical components like a bulb as used in the hardware circuit or timer control and in the water level controlling; where when the water reaches the desired level, the motor automatically gets disconnected.

### Title #4: Obstacle Avoiding Robot using Atmel 89C51 Microcontroller.

### Title #5: Metro Train Prototype using 89S52 MCU.

**PAPER PRESENTATION:**

* Presented paper on Blue Ray Disc Technology in NITM, Gwalior on September, 2008.
* Gave seminar on Geographic Information Systems (GIS) being held in NITM, Gwalior on September, 2009.
* Presented paper on Embedded Systems in Appin Technology Lab, Guwahati in December, 2010.
* Gave power point presentation on Event Management.

**PARTICIPATION, ACHIEVEMENTS & EXTRA CURRICULAR ACTIVITIES:**

* Participated in National Level Seminar on Recent trends in Science and Technology held in our Institution.
* Worked as a volunteer for an NGO, Help Age India in Bangalore.
* Member of the Organizing Committee of NAGA UTSAV-2009 (Annual college fest).
* Participated in several inter school Quiz & debate competitions.
* Participated in tree plantation program conducted by Assam Science & Environment council in Rangia, Assam.

**STRENGTH/PERSONAL ATTRIBUTES:**

* Self-Confident, Disciplined, Self-Motivated and result oriented.
* Optimistic, Practical approach towards Problems, Ready to accept challenges.
* Constructive in approach, ability to work in a team, collaborate, leverage.
* Solid analytical, negotiation and problem solving skills.
* Firm decision maker with good influencing skills.

**AREAS OF INTEREST:**

* I grab every opportunity to learn anything unknown to me & I relish challenges offered to me. I like to apply my mind where creativity is involved. Other than that I like solving QA puzzles, listening music, web browsing, travelling;

**PERSONAL PERTICULARS:**

**Father’s Name** **:** Madhab Nath;

**Date of Birth** **:** 01-02-1989;

**Linguistic Abilities** **:** English, Hindi, and Assamese;

**Permanent Address** **:** Village-Gorakhattari, P.O. Rampur,

Dist. Nalbari, Assam, Pin: 781312.

**Address for Communication:** 82-P, D.I.Z. Area, Sector-IV,

Baba Kharak Singh Marg,

New Delhi – 110001, India

**DECLARATION**

**I do hereby declare that all the information furnished above is true and authentic to the best of my knowledge.**

**Place: New Delhi**

**Date: May, 2013 (JYOTIDWIP NATH)**