Amit Kumar Nandi

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PERSONAL STATEMENT

A proactive, solution oriented technical professional with a positive and confident approach and fluent English speaking proficiency. Well-developed concept and technical support skills proven in academic project competition among engineering colleges and consulting in industry. Able to work well both in teams and on own initiative with a proven record of achieving goal through leadership. Resilient, confident and works well under pressure. Seeking a role in concept and customer support sector.

EDUCATION

Name of degree/Examination	Name of Institute	Board / University	Year of Passing	Marks Secured
M.Tech in Automated Manufacturing Systems, Dept. of Production Engineering.	Birla Institute of Technology, Mesra	University	2020	SGPA: 8.58 (1st Semester)
B.Tech. in Applied Electronics and Instrumentation Engineering (AEIE)	Heritage Institute of Technology, Kolkata	MAKAUT (Formerly WBUT)	2018	CGPA:6.92
Higher Secondary (Science)	Nava Nalanda High School	WBCHSE	2014	69%
Madhyamik	Nava Nalanda High School	WBBSE	2012	79.71%

ACHIEVEMENTS

- Inter-School Football Champions in Nalanda Cup, 2012.
- Stood 2nd in School-level Computer Science Quiz, 2012.
- 1st Runner up in 3rd Inter-college competition of "Prototype Design for Mankind" for the project titled 'IoT based CNC Router', 2018.
- Published a research paper based on my final year project at a renowned journal IJSER (International Journal for Science Education and Research), June 2018.

[URL: *https://www.ijser.org/onlineResearchPaperViewer.aspx?Design-Implementation-of-an-IoT-Based-3-Axis-CNC-VMC.pdf*]

INDUSTRIAL CONSULTING [06/2017 – 10/2017]

Smartpower Automation, Kolkata

Technical and Digital Marketing Developer

- Design, implementation and hosting support for company website (URL: *https://www.upvctools.com*).
- E-commerce implementation.
- Content Management System (Joomla) integration.
- Payment gateway integration currently being implemented.

INTERESTS

Strong interest in gaining knowledge on product manufacturing (design and planning), product details, manufacturer evaluation and publishing contents on 'do it yourself' projects on both hardware and software.

TECHNICAL SKILLS

Programming Languages: C, Embedded C(Atmel Studio),

PHP, SQL

Simulation Tools: MATLAB, Witness, AnyLogic, IBM SPSS

CAD/CAM/CAE: SolidWorks, Catia, Mastercam, Siemens NX,

Altair HyperWorks, Abaqus, Delmia

PowerPoint, Word, Excel, Outlook and Microsoft Power Bi

Linux server administration

ACADEMIC PROJECTS

Project #3

Project Title : **Internet controlled CNC machine**
Description : A 3-Axis Vertical Machining Center which can be controlled from anywhere with an Internet Connection. It is based on fully open-source software(GRBL) having high repeatability and reasonable positional accuracy in terms of ±0.008 cm.
URL : *https://www.hackster.io/amitnandileo/diy-3-axis-cnc-vmc-4817ba*
Institution : Heritage Institute of Technology.

Project #2

Project Title : **Smart Solar tracker**
Description : A Dual-Axis Smart Solar Tracking System based on LDRs and RTC.
Institution : Heritage Institute of Technology.

Project #1

Project Title : **Audio System**
Description : Bluetooth 2.1 based 20-watt dual channel wireless speaker system with 8-hour battery backup.
Institution : Out of my own interest.

TRAINING

Training #3

Project Title : **Microelectronic Technology and VLSI Design**
Description : Fabrication on Silicon wafers, VHDL Programming and CMOS Circuit Design using Tanner EDA.
Institution : Jadavpur University.
Platform : Oxidation-Metallization and Vaporisation Technique, Xilinix VHDL software, Tanner EDA.

Training #2

Project Title : **Motor Control using PLC and SCADA**
Description : Sequential control of 3 motors used as Induced Draft Fans.
Institution : Centre for Electronics Test Engineering under ERTL(E), STQC Directorate, Ministry of Electronics and Information Technology, Govt. of India.
Platform : Siemens S7 300 PLC and Simatic™ HMI Software.

Training #1

Project Title : **CNC Milling - Machining and Programming**
Description : VMC operation, maintenance, tooling and control using G&M codes.
Institution : Central Tool Room & Training Centre, MSME, Govt. of India
Platform : HAAS VM2, Siemens Sinumerik 840D Simulation, Fanuc 0i M

(AMIT KUMAR NANDI)