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Debarpan **Bose**

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D.O.B - 12.05.1994
Nationality - Indian

EDUCATION

HOCHSCHULE BREMERHAVEN
MS IN EMBEDDED SYSTEMS DESIGN
Bremerhaven Germany
Current GPA - 1.9

NITMAS
B.TECH IN ELECTRONICS AND COMMUNICATION ENGINEERING
Grad. Aug 2016 | Kolkata, India
DGPA - 7.87 / 10.0

VIVEKANANDA MISSION SCH.
Grad. May 2012 | Kolkata, India

LINKS

LinkedIn://dbose94
Xing://debarpan_bose
Quora://Debarpan-Bose-1

COURSEWORK

Implementation of SPI protocol(state machine), Traffic Light Controller using Timed State Machine, Design of IP block and softcore FIR filter on FPGA, IIR and FIR filter design and calculation using MATLAB/Simulink, Filter design for an ECG signal, Implementation of FFT algorithm in Java on FPGA, Distance calculation by Acceleration sensor of a building using Atmega32 and processing the data in Matlab

SKILLS

PROGRAMMING

LANGUAGES
Java • C • Matlab • VHDL • Web Applications(Servlets, XML)

MARKUP
LaTeX • HTML

TOOLS
Eclipse • Matlab/Simulink • Xilinx Vivado • Arduino IDE Proteus • LTSpice

PROTOCOLS
SPI • I^2C

FAMILIAR
Android • Spring Framework • MySQL • Apache Maven

EXPERIENCE

BIBA | STUDENT RESEARCH ASSISTANT
Mar. 2018 – Present | Bremen Germany
Agile Virtual Testing - Harmonization of Test Environments for the purpose of optimizing the functional testing of aircraft functions using Java based web API

TRAINING

EASTERN RAILWAYS
Jun. 2015 – Jul. 2015 | Kolkata, India
Training to build and repair Public Amenities Systems(audio and visual) modules used in passenger trains and GPS based digital clocks used in railway platforms

BHARAT SANCHAR NIGAM LIMITED
Dec. 2014 – Jan. 2015 | Kolkata, India
Knowledge on Switching, Signaling and Routing and hands on training was given on OFC and GSM

PROJECTS

FLIGHT ANGLE CONTROL
•Reduced offset by calibrating the MEMS sensor to analyze the time domain signal with disturbance and hence performed FFT to eliminate the noise using different filtering techniques.
•PID controller was programmed for auto leveling of the quadcopter and compared between KALMAN and COMPLEMENTARY filtering technique used for our system using MATLAB.
Hardware: Arduino Mega 2560
Programming/Tools: Arduino IDE, Tera Term, MATLAB, C

MICROCONTROLLER BASED FUNCTION GENERATOR
• Generated square, sine and triangular wave-forms using a crystal oscillator with a precise frequency, providing high flexibility and reducing cost and circuit complexity used in typical function generators.
Hardware: AT89C51
Programming/Tools: Proteus, C

LANGUAGES

English: Fluent(IELTS - 7.5)
German: Negotiable(Deutsch A2 level Proficiency)
Bengali: Mother Tongue
Hindi: Proficient