

# ANISH NARAYANAN HEMACHANDRAN

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## WORK EXPERIENCE

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February 2014 – June 2019

Company: **Zethon Ltd , Aylesbury**

Designation: **Software Design Engineer(Permanent)**

- Worked through full product development lifecycle.
- Responsible for software development in R&D for bone cutting medical devices.
- Worked on writing code for dual-core Delfino TMS320F2837xD MCU in Texas instruments code composer studio by:
  - Writing code for motor control devices (which operate simultaneously from any port on the console), with attachment recognition and with choice of trigger/lever /pedal control.
  - Running a pump drainage system with stepper motor through a rfid tag detection system.
  - Writing code for comms between multiple SPI peripherals, I2C , ADC's,
  - USB comms and data encryption/decryption.
  - Ensuring code reusability for future devices and consoles by implementing a modular code architecture.
  - Software maintenance and documentation.
- Worked on GUI development (front and back end).
- Worked on calibrating 3D scanners to produce images of shoulder moulds in Meshlab.
- Have worked in a clean room environment for cleaning, packaging and labelling medical forceps.
- Have helped in the warehouse for stock take and operating storage lifts.

September 2013 – November 2013

Company: **Innomech GB, Ely, Cambridgeshire**

Designation: **Project Engineer (Contract)**

- Worked on software code development in Arduino to automate a precision Powder dispensing machine for a medical Client.

December 2012 – March 2013

Company: **Enistic Ltd, Oxford**

Designation: **Electronics Support Engineer (Contract)**

- Software development for an IBEM (Intelligent Building Energy Management) system, which is used to monitor and control the energy use within a building.
- Implemented Modbus, UART and I2C communication protocols through Raspberry pi, which had a Linux kernel to control a PIC 18f2431 micro-controller, which had LCD, Relays, a voltage reader, and LED's connected to it.

- Connection and testing of hardware components, fault identification

July 2012 - September 2012

Company: **Lab Minds Ltd, Oxford**

Designation: **Mechatronics Engineer (Contract)**

- Worked on Arduino software coding to control Stepper motors , which were used in an Automatic solution preparation machine .
- Established reliable serial and I2C communication for Master/Slave interface to control Stepper motors.
- Implemented conductivity sensors to measure and determine whether the machine was cleaned thoroughly from acid/base solutions .
- Experienced the inner working of a high tech start up and work with lean and innovation-driven teams.

December 2011 – July 2012

Company: **High Speed Telecom, Oman**

Designation: **Procurement Engineer**

- Procurement engineer and representative for the company in UK.
- Responsible for obtaining competitive quotations and sourcing products for the company from the UK.
- Ensured that the company's enquiries and orders are processed with efficiency by building a reliable network of product suppliers.

## EDUCATION

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September 2010 – September 2011

### **Master of Science (MSc.) Mechatronics**

University of Bath, United Kingdom

*MASTERS THESIS* : Control strategies for a running bipedal robot

August 2006 – May 2010

### **Bachelor of Technology (B.Tech) Electronics and Communication Engineering**

Vellore Institute of Technology, Vellore, Tamil Nadu, India

## SKILLS

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Software packages : Code Composer , MPLab (Microchip C18) , Arduino,  
Raspberry Pi

Documentation

and Test softwares : Visio, LDRA (Misra C 2012), Git extensions, Redmine , Doxygen , SpiraTest.

Operating Systems : Windows , Linux(basic).

Programming skills : C(proficient) , C# , C++ , Python

Interests : Sketching , UX/UI , VR/AR , gaming , reading , music , swimming