Priyank S. Yeolekar

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**Objective**

To be able to work as Biomedical Engineer in a world class organization where my demonstrated technical and analytical skills in biomedical electronic systems will be greatly challenged in achieving the company's goals and objectives in developing solutions to health problems.

**Education and Training**

Master of Science: Biomedical Engineering May 2018

New York University New York, NY

Bachelor of Engineering: Biomedical Engineering Aug 2014

Vidyalankar Institute of Technology Mumbai, MH

**Skills**

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| --- | --- |
| FlexPDE, Draftsight, Autocad, MATLAB, C, C++, Python,  JAVA | Fusion 360, Biomedical Instruments, Multisim, Altium Designer, Proteus, Solidworks |

**Experience**

Design Engineer 08/2017 to Current

Reliant EXIM & Consulting LLC New York, NY

* Design concepts and prototypes for user feedback and technical evaluation.
* Documentation and communication of technical information through presentations, protocols, reports and notebooks with cross functional team.
* Investigate technologies, product concepts, and design improvements for new and existing products.

Graduate Assistant 09/2016 to 07/2017

New York University New York, NY

* Conducted recitation lectures for the courses of Physiology 1, Physiology 2, Tissue Engineering.
* Assisted students to resolve queries for the courses of physiology 1 and physiology 2.
* Conducted labs and helped students to resolve queries regarding the labs.

Biomedical Engineer 05/2013 to 09/2013

Masina Hospital Mumbai, MH

* Identified various problems with the medical instruments of various departments of the hospital and resolved those problems.
* Got hands on knowledge of working of various medical instruments in the real-life scenarios.
* Assisted in installation of Computed tomography scanner (CT scanner).
* Presented test results of various medical instruments in hospital in team meetings using PowerPoint.
* Performed operational checks, calibrated and completed electrical safety inspections on medical devices.

**Projects**

**3D printer.                                                                                             08/2017 to Present**

* Built a 3D printer using REPRAP technology. Worked on the electronics part of 3D printer.
* Designed parts of 3D printer using Fusion 360 software.
* Optimized designs for 3D printing as per client's needs.

**Electromyograph and Electrocardiogram Analysis.            01/2016 to 05/2017**

* Objective was to check if any irregularities are present in collected data.
* Obtained graphs of EMG and ECG signals using iWorks software.
* Performed statistical analysis on the data using MATLAB, mathematica and Minitab.
* Performed Anova Test Analysis, Two taield T Test Analysis and compared multiple sets of data for significant difference.

**Heart Rate Monitoring System.                                                   01/2017 to 05/2017**

* Designed circuits used in the heart rate monitoring system individually and tested frequency response of each circuit.
* Developed software for controlling function of circuit and to nullify the noise in the analog circuit.
* Designed graphical user interface using python to see real time heart rate signal on computer screen.

**Materials used in Biomedical Engineering.                                01/2016 to 05/2016**

* Simulated and identified the pertinent interactions between the materials and composites with living tissue and their durability.
* Learnt concept of CAD/FEA which are used with the design of non-orthopedic devices that interface to the neurologic and cardiovascular systems.

**Visionary Belt for Blind.                                                                  05/2013 to 05/2014**

* Project was based on use of ultrasound sensors and PIC microcontroller to aid the blind people.
* Designed circuit with the help of concepts learnt in courses like Biomedical Instrumentation, Electronic circuits and design, Electrical networks etc. and Constructed circuit designed on a PCB board.
* Developed software to control the functionality of circuit and detect the obstacles for blind people. The PIC microcontroller controlled the multiple ultrasound sensors which detects the obstacles in the vicinity of the user.