Emil Joseph

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ACADEMIC DETAILS

Education	Board/Major	Institute	Year	GPA
Under Graduate	*Engineering Science (Spec. EE)*	IIT Hyderabad	2015 - 2019	8.08
Intermediate	*CBSE*	Sacred Heart CMI Public School	2013 - 2015	96.4%
Tenth	*CBSE*	St. Juliana's CBSE Public School	2013	10

FIELDS OF INTEREST

- Machine Learning / Artificial Intelligence

- Augmented / Virtual Reality

- Coding

- Embedded Systems

- Robotics

LANGUAGES KNOWN

- Malayalam

- Hindi

- English.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, FORTRAN, Java.

- **Hardware Description Languages:** VHDL, Verilog.

- **Markup Languages:** HTML, CSS.

- **Database Languages:** SQL.

- **Scripts :** Node.js, PHP.

- **Tools:** Eclipse, LaTeX, MATLAB, Modelsim, Xilinx, Visual Studio, Android Studio, Unreal Engine 4.X, .

- **OS:** Windows, Linux, Android.

PROJECTS

- **Portable ECG with alert system using RasperyPi with Cloud Connectivity**
  (Guide: Amit Acharya)
    - **Objective :** A portable ECG system which takes ECG readings from a patient, process the data to monitor the patient's health and uploads it to a cloud server (Google Firebase) so that it is readily available to the doctor at any time. The data is compressed and uploaded to the cloud from the RasperryPi, and a WPF C# Windows application (developed from scratch) is used for retrieving the data from the cloud for viewing.

- **Home Automation using Arduino**
  (Apr 2015 - Apr 2016)
    - **Objective :** A simple Home Automation System using to control Electrical devices inside the home. An Android application was built with voice interface to control the automation system using actual verbal commands

- **RF Controlled Lights**
  (Apr 2016 - Apr 2017)
    - **Objective :** A wireless system to control the lights above the staircases inside one of our college hostel blocks was built. Presumably still working.

INTERNSHIPS

- **Embedded Systems - Aester India Ltd. (Kochi)**
  (Jun 2018 - Jul 2018)
    - The field of work was in Embedded Systems and Designs. We used various Microcontrollers and FPGAs to complete a given task.

- **Industrial Visit - Cochin Shipyard Ltd. (Kochi)**
  (Jul 2018 - Sep 2018)
    - I was able to see how various Electrical Departments worked as CSL. I had the oppertunity to observe and see how various devices and electrical systems are used in a ship. Eg, Communication devices, GPS, and so on.

Positions Of Responsibilities

- Event Organizer for College Tech Fest (Circuit Hunt), Elan - Nvision IITH

- Core Member, Music Club IITH (2015 -)

- Core Member, Robotics Club IITH (2016 -)

HOBBIES

- Chess.

- Playing Table Tennis and Soccer.

- Multiplayer PC games.

- Watching TV and Anime Series.