

# S Muruganandham

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## Summary

Final Year student from Pondicherry university majoring in Electronics and Communication Engineering. Specializing in Real Time Transducer based projects and Networking. Experienced with various Microcontrollers and Microprocessor projects. Well-versed in Networking, Python, Embedded C, IOT with Raspberry pi as a gateway, Photoshop and Adobe After effect.

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## Skills

+ **Programming Language:** Python, Embedded C, MATLAB, C.

+ **Operating System:** Linux (Ubuntu, Kali-Linux, Raspian-pixel), Windows.

+ **Frameworks and Packages :** Open CV, Tensor Flow, Wiring Pi, Flask.

+ **Software:** ISIS Proteus, Arduino IDE, MYSQL, Adobe After Effect, Adobe Photoshop.

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## Interests

- Transducer based project with Raspberry pi.
- Embedded system based controller,
- Image Processing,
- Artificial intelligence & Machine Learning,
- Graphic and Motion Graphics Designing.
- Physical Networking

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## Projects

**TITLE:** SECURITY-SYSTEM-WITH-NEURAL-NETWORK

**DESCRIPTION:** Project developed for Project Expo conducted by Anna University

**Reference:** GitHub-<https://github.com/Muruganandham18/SECURITY-SYSTEM-WITH-NEURAL-NETWORK>

**Team Size:** 2

**ROLE:** Project Leader, Python script to create a neural network to Recognize Face.

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**TITLE:** SELF-BALANCING-BOT-WITH-ARDUINO

**DESCRIPTION:** A two-wheel bot maintains gravity at the center of its body without losing its balance, this project is based on PID controller and IMU Sensors with Arduino.

**Reference:** GitHub- <https://github.com/Muruganandham18/Self-balancing-Bot>

**Team Size:** 2

**Role:** Project leader, Creating the PID algorithm and Main program for Balancing the bot.

## Certifications

- Certification for **Internship** in **VI Microsystem** on **Internet of Things** with Raspberry pi.
- Certification for **Implant Training** on **Thermal Power Station**, Mettur, Salem, Tamilnadu.
- Certification of participation in workshop on **Open AI** conducted by **Nation Institute of Technology Puducherry**.
- Certification of participation in workshop **Wireless Sensor Networks for Home and Industrial IoT** conducted by **Annamalai University**.
- Certification of participation in workshop on **Self Balancing Bot** conducted by **Nation Institute of Technology Puducherry**.
- Certification of participation in **IOT Challenge 2018** Event conducted by **i3indya** Technologies.
- Certification of participation in **Project Carnival** conducted by **EGS Pillay Engineering college**.
- Certification of participation in **Hands on workshop on Python and Machine Learning** organized by **Pondicherry Engineering college**.
- Certification of participation in **Hands on workshop on Raspberry pi** organized by **PERUNTHALAIVAR KAMARAJAR INSTITUTE OF ENGINEERING AND TECHNOLOGY (PKIET)**.
- Certification of **INDUSTRIAL VISIT** on **Bharat Sanchar Nigam Limited**.
- Certificate of Achievement for **1<sup>st</sup> prize** for The Cachet Computer Quiz by **CACHET SOFT PVT. LTD.**

## Education

**Bachelor of Technology: Electronics and Communication Engineering** **2015-Present**  
**PKIET-Karaikal, Pondicherry University**

**CGPA:** 6.1/10

**Relevant Coursework:** Digital circuits, Wireless Communication, Circuit Analysis, Microprocessor and Digital communication.

**HSC:** **2015**

**ST Mary's Higher Secondary School, Karaikal, TN Board**

**Percentage:**72.58%

**SSLC:** **2013**

**ST Mary's Higher Secondary School, Karaikal, TN Board**

**Percentage:** 80.00%

## Person Details

**Date Of Birth** : February 18 ,1998  
**Gender** : Male  
**Nationality** : Indian  
**Hobby** : Mini electronics projects and Photoshop  
**Languages Known** : English, Hindi and Tamil