Smit Shah

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Career Objective

A motivated Engineer with an aim to develop soultions for daily manual tasks through Automation and Roboitcs System

Education

Year	Degree/Certificate	Institute	CGPA / Percentage
2012	Secondary School Certificate	Children's Academy	88.0%
2014	Higher Secondary School Certificate	T.P.Bhatia College of Science	76.72%
2014	1st Semester Btech ETRX	K.J. Somaiya College of Engineering	5.96
2015	2nd Semester Btech ETRX	K.J. Somaiya College of Engineering	6.04
2015	3rd Semester Btech ETRX	K.J. Somaiya College of Engineering	6.09
2016	4th Semester Btech ETRX	K.J. Somaiya College of Engineering	6.0
2016	5th Semester Btech ETRX	K.J. Somaiya College of Engineering	6.83
2017	6th Semester Btech ETRX	K.J. Somaiya College of Engineering	6.48
2017	7th Semester Btech ETRX	K.J. Somaiya College of Engineering	6.91

ETRX - Electronics Engineering

Projects

Autonomous Water Rover With Underwater Inspection System (July 2018- Present):
An Autonomous Water Rover With and Underrwater Inspection System Installed with Sensors and Camera for Monitoring of Water Bodies and Inspection of Underwater Infrastructures.

Welding Automation (December 2017 - January 2018):
A system designed for automation of Seam Welding Process At Larsen and Toubro Heavy Engineering based on PLC and SCADA using Laser Distance Sensor to aid workers and relieve them of the constant heat and stress endured during the process.

Unrolling Machine (December 2017 - January 2018):
A modular system designed for the rolling and unrolling of steel plate liners used in Chemical Burners, the system can be assembled and dismantled in 20 minutes and uses 24V DC motor for electrical Safety.

SONAR using AVR and Matlab (March 2016):
An ultrasound sensor mounted on a servo was used to get obstacles in a 180 degree field of vision and the results were plotted using matlab.

Wireless Mobile Charger (2017)

Robocon (November 2016 - March 2017)

Visitor Counter (Jan 2015-July 2015):
A simple visitor counter designed using 8051 microcontroller.

Internships and Trainings

1. Trainee at Larson and Toubro Heavy Engineering Department (Dec 2017-Jan 2018)
A seam welding automation system and a rolling and unrolling machine were designed.

2. Trainee at Ericsson India Pvt Ltd. (June 2018-July 2018)
Undertook a Drive Test on field in Malad Sector for maintenance of Mobile Towers and solve Customer Complaints.

Positions of Responsibilty

1. Senior Member Team KJSCE Robocon (May 19 2016- June 19 2017)

- Guided the junior members of the hardware team
- Organised and taught in a workshop on robotics by team KJSCE Robocon
- In-charge of all circuits on the robot.

Online Courses Completed

1. Machine Learning (Coursera – Dec 2018)
2. Web Development and Java Script (Microsoft – Dec 2018)

Technical Skills

1. Software Platforms Used:
    - Python programming on RPI (Intermediate)
    - Arduino Programming (Intermediate)
    - HTML, JavaScript, CSS (Basic)
    - TesnorFLow (Basic)
    - Visual Studio (Basic)
    - Matlab (Intermediate)
    - Verilog (Basic)
    - Siemens SCADA and PLC programming
2. Hardware Platforms :

- AVR and Arduino
- Raspberry PI 3b
- BeagloBone Black
- Siemens PLC S71200

Soft Skills

- Self Motivated
- Ability to Work Under Pressure
- Time Management
- Teamwork
- Problem Solving

Extra-Curricular Activities

- Cricket
- Painting and Sketching
- Volunteering in Education domain
- Trekking

Co-Curricular Activities

- Won the "Best Hardware" award at the eYantra Ideas Competition 2019
- Qualified for the semi-finals of ongoing DST and Texas Instruments hosted IICDC contest 2018
- Stood First at Prakalpa 2019

Personal Details

Father's Name : Nilesh Shah
Mother's name : Trupti Shah
Date of Birth : 8th March 1997
Nationality : Indian
Marital Status : Single

References

1. **Mr. Avinash A Prabhudesai**
   Assistant Professor
   Mechanical Dept.
   avinashp@somaiya.edu

   Prof. Avinash Prabhudesai is the project guide of my final year project "Autonomous Water Rover". His work in KJSCE includes a university grant project on a regenerative brake and a consultancy project on performance improvement of a sugarcane harvester. He is Faculty Advisor for KJSCE Robocon and has an US Patent for "Radiator Grille" which was granted in January 2017.

2. **Mrs. Arati Phadke**
   Associate Professor
   Electronics Dept.
   aratiphadke@somaiya.edu

   Prof. Arati Phadke was my eYIC mentor and My Project Mentor. She was the Head of Department of Electronics Engineering from May 2008 to June 2011 and Dean (Student's Affairs) from May 2005 to April 2008.

Declaration

I, Smit Shah declare that all the details in this document are true and a valid proof of the same will be made available if required.