Vikas Raikwar

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PROFILE OVERVIEW:

Highly skilled in Electronics in field of Robotics, Embedded Systems with extensive knowledge of UAV's ,Sensors & PCB designing. Ability to demonstrate & conduct presentations and posses good verbal & written communication skills with good understanding. Sound knowledge of basic computer OS's including web designing.

CORE COMPETENCIES:

ROBOTICS

PCB DESIGNING

WEB DESIGNING(HTML)

C

PLC PROGRAMMING

• EMBEDDED SYSTEMS

PROTEUS(SIM.)

NETBEANS IDE

• C++

WIRELESS SYSTEMS

UAV'S

TINA(SIM.)

ARDUINO IDE

JAVA(PROGRAMMING LEVEL)

PNEUMATIC SYSTEMS

EDUCATIONAL QUALIFICATION:

Examination	School/ College	Year of Passing	CGPA / Percentage%
B.E. (Electronics & Communication Engineering) [R.G.P.V. Bhopal]	B.T. Institute of Research & Technology, Sagar	2014 - 2018	71.1 %
XII (CBSE)	Vatsalya Sr. Sec. School, Sagar	2013 - 2014	57.2%
X (CBSE)	Vatsalya Sr. Sec. School, Sagar	2011 - 2012	64%

ACADEMIC ACHIEVEMENTS:

- Rank 1, Project Exhibition at Horizon Techfest 2015-16 B.T. Institute of Research & Technology 4TH Semester, B.E.
- Rank 1. Robo-Race at Horizon Techfest 2015-16 B.T. Institute of Research & Technology 4TH Semester, B.E.
- Rank 2, Quiz Competition at inter-department Quiz Competition 2015-16 B.T. Institute of Research & Technology 4TH Semester, B.E.
- Rank 2, Robo-Race at Horizon Techfest 2016-17 B.T. Institute of Research & Technology 6TH Semester, B.E.
- Rank 2, Robo-Race at Prabhav Techfest 2016-17 Infinity Institute of Research & Technology 7TH Semester, B.E.

PROJECT/TRAINING/SOFTWARE PROFICIENCY:

LIVE PROJECTS

(Running)

: Designing efficient UAV **DRONE** for spraying pest control chemicals over agriculture land with help of self designed chemical spraying system with position & altitude hold feature.

Working on **Universal remotely web control nano quadcopter** with Bluetooth & nrf24l01 radio module and ESP8266 WIFI module using coreless DC motors.

MAJOR PROJECT

Robotic Arm with teach-in function

: Robotic Arm implemented using ATmega328p micro-controller, micro servo motor (SG90) & 3D printed parts. Technically based on Analog value control which are provided as input for arm movement in 4DOF. Consist of teaching algorithm which records analog value in array in record mode & executes movement of robotic arm for infinite loop when play-mode is active.

MINOR PROJECT

Automatic rotating solar panel with self calibration system

• Automatic rotating solar panel designed for automatic rotating towards high photonic rays for getting maximum efficiency from sun rays and transform into electrical energy by using solar panel .It is sensorless rotating solar panel which works on principle of maximum efficiency ,it automatically detects and calibrate itself to the direction getting

QUADCOPTER

PID controlled **self level DRONE** which can lift 1.5kg weight and can be controlled through transmitter within range of 500m (Dia.) video recording and other application such as monitoring and surveillance can be done. Arduino Nano & MPU6050 Gyro was used for making flight controller with Bluetooth (HC-05) and FLYSky Transciever system which works on frequency range of 2.4 GHz.

OTHER PROJECTS

3D Printer, Wireless Bluetooth Controlled BOT,GSM Based Automatic Distribution Pole Cut-off with Temperature Monitoring System,DTMF robot,Automatic soil-moisture control system with moisture sensor.

BASIC TELECOM TRAINING BRBRAITT -BSNL Jabalpur (M.P.)

Basic Telecom. Training in which overview of Telecom & mobile network, losses in wired & wireless networks, optical fibre communication with transmission & reception ,mobile technologies & its generations, FTTH technology with acess & transmission networks, basic principles of electronic changes, next generation networks, IOT and detail information about internet & IP addresses were discussed & practical information was provided during training session.

SOFTWARE PROFICIENCY

Adobe Photoshop, Express PCB, Proteus, MultiSim(Basics), Arduino IDE, Netbeans, Android), Fritzing PCB, MATLAB(Basics), Microsoft Office 2007(Basics), AutoCAD 2010 (Basics), NetBeans 6.0(Basics), TINA, FluidSIM, Simatic Manager 7, WPLsoft, Inkscape, Fusion 360.

PROGRAMMING LANGUAGES: C++,Embedded C(Basic),JAVA,HTML(Basics), ALP(Basics), Ladder.

CO-CURRICULAR ACTIVITIES:

• WORKSHOPS : Ethical Hacking ,Quadcopters ,Robotics ,Wireless Robots, MATLAB, Line & Maze follower robot .

CERTIFICATIONS: Interfacing of Microcontrollers at ROBOTRONIX ,Jabalpur[M.P.], Wireless Robotics at

ROBOTRONIX, DAVV Indore[M.P.], Basic Telecom Training at BRBRAITT, Jabalpur[M.P.],

Quadcopters at IIT Roorkee.

ACHIEVEMENTS EXTRA-CURRICULAR:

RoboWar Co-ordinator, at Horizon Techfest 2016 BTIRT

Badge Holder at Soft skill Development Session, BTIRT -

Co-ordinator of Online Exam, BTIRT

Honoured & awarded as Super Student, BTIRT

Workshop Organizer at BTIRT ,Sagar

Workshop Organizer at Shailesh Memorial School, Sagar

Represented Madhya Pradesh at World Skill India 2018

Technical Co-ordinator, at technical workshop, BTIRT

Honoured as Official Web Developer, BTIRT

- Assisted to manage the Robowar field and verifying Robots per allotted criteria.
- Served as group leader for maintaining discipline and promoting importance of communication skills.
- Assisted to look after students occurring in exam and give information regarding online exam software.
- In recognition of loyality, leadership, sincerity & determination & Displayed during soft skills development program.
- Organized workshop on wireless Bluetooth robotics at BTIRT campus, Sagar (M.P.)
- Organized workshop on Basic Electronics for 9th -12th standard students.
- Under Mechatronics skill ,represented M.P. State in regional competition at World skill India 2018 held at JECC, Jaipur (Rajsthan).
- Exhibited skills in software related queries, component monitoring & PCB designing at basic electronics workshop at BTIRT campus, Sagar (M.P.)
- Official web developer for www.satishb3anand.com under supervision of International author- Satish B3 Anand

AREAS OF INTEREST:

Embedded systems - Making projects with microcontrollers such as 8051,AVR,Arduino with implementing various modules & sensors like Temperature, accelerometer ,gyro, Proximity, Infrared sensors & GSM

module and many other sensors with digital circuits

Robotics & UAV's

 Making bots with various functions like gesture controlled, light & line following, maze solving bot and UAV's like Quadcopter ,airplane with wireless protocols such as wifi,2.4ghz RF, Bluetooth.

PLC & Automation - Generating logics for automatizing and controlling industrial equipments & devices with implementing various types of sensors such as reflectometer, inductive sensor, color sensor, etc.

DECLARATION:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Date & Place :	Vikas Raikwar