

Chirag Makwana

Mechanical Engineer | Robotics Developer

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Pune, Maharashtra, India



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chiragmakwana0296



chiragmakwana02

I am highly motivated individual seeking to pursue a career in Robotics and Automation with particular interest in Design, Product Development, Robotics research & Development. I want to work in an organization which can utilize my skill and knowledge in the domain of Robotics and Automation for overall Development of the organization.

Personal Details

- **Full Name:** Chiragkumar Dipakkumar Makwana
- **Gender:** Male
- **Marital Status:** Unmarried
- **Date of Birth:** 02/02/1996
- **Address:** B-14/14, Shantiban Society, Guruganesh Nagar Part 2, Kuthrud, Pune. 38.



Experience

e-Yantra Lab MMCOE

MMCOE, Pune

2016-2017

Robotics Engineering

- Worked on Firebird-V Robot based on Atmega2560
- Worked on kinematics of differential drive robot.
- Developed framework for android controlled differential robot with gripper.
- Conducted Workshop on Differential drive mobile robotics.

Projects

Design, Development and Kinematic Modeling of 10

Robotics

Joint Modular Snake

August 17 – October 17

Mini project

- Platform used: ROS, V-REP
- Modeled on Fusion 360.
- Programmed in ROS-Kinetic
- Simulated in V-REP
- Microcontroller used: Arduino nano.
- Kinematic Model of Gaits: Serpentine motion, Side Winding motion

Project Link: https://github.com/chiragmakwana0296/Snake_Robot_ROS

Design, Analysis, Kinematic Modelling and Simulation of Six Axis Robotic Arm

Robotics
October 17 – May 18

Major Project

- Platform used: Solidworks, Ansys, ROS, V-REP.
- Modeled on Solidworks.
- Programmed in ROS-Kinetic.
- Simulated in V-REP.
- Microcontroller: Arduino MEGA.

Project Link: https://github.com/chiragmakwana0296/six_axis_robot_ROS

Education

Marathwada Mitra Mandal's College of Engineering

Pune, Maharashtra, India
2015-2018

B.E. Mechanical Engineering.

- 68.8 %

MIT Polytechnic, Kothrud

Pune, Maharashtra, India
2012-2015

Diploma in Mechanical Engineering.

- 81 %

Skills

- Mechanical Design
- Kinematic Modelling
- ROS (Robot Operating System)
- V-REP (Virtual Robot Experimentation Platform)
- CAD Software : Catia, SolidWorks, Fusion360.
- Programming Language : C, Embedded C, Python.
- Operating system : Linux, Windows.
- Microcontroller : AVR, Raspberry-Pi, Arduino.
- GD&T.

Achievements, Awards & Certifications

- | | | |
|-------------|--|-------------------------|
| 2015 | Achieved First Rank in Softtech Robozest, International level Robotics Competition, Organized by IIT-Delhi | <i>IIT-Delhi, India</i> |
| 2013 | Secured 3 rd Rank in Diploma 2 nd Year. | <i>MIT-SSPP, Pune</i> |
| 2015 | C Programming (Certification Maharashtra Infotech) | <i>Mumbai India</i> |
| 2014 | BOSCH 3-Days Training on Latest Technology on advance Automotive Engineering. | <i>Pune, India</i> |
| 2017 | Attended Workshop Conducted by Sofcon India Pvt. Ltd. for the domain Industrial Automation. | <i>MMCOE, Pune</i> |

Extra-Curricular Activities

Participated Robocon 2015-16

2015-2016

MMCOE, Pune.

- Represented MMCOE Collage in national level robotic event **Robocon 2016(Clean Energy Recharging the World)** as a core member in Design, Kinematic modelling and simulation of locomotion of Hybrid Robot.

Participated e-Yantra Robotics Competition

2016-2017

MMCOE, Pune.

- Represented MMCOE Collage in National Level robotics event **e-Yantra** conducted by **IIT-Bombay**. My team had worked on theme **Bothoven**, in which we used Research platform **Firebird-V robot** based on **Atmega 2560**.

Participated Robozest Robotics Competition – IIT-Delhi

2015

MIT-SSPP, Pune.

- Represented MIT-SSPP Collage in International level robotics 2 days workshop and competition conducted by Robo Zest, SportTech and IIT-Delhi and Achieved 1st Rank in Competition.

Interest

- Playing Carrom
- Programming
- CAD Modelling
- Car Sketching

Declaration

I hereby declare that the above information provided is true to best of my Knowledge and belief.

Date: 25-Jun-18

Place: Pune

Chirag Dipakkumar Makwana