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| **Chirag Makwana**  Mechanical Engineer | Robotics Developer  *Pune, Maharashtra, India*   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | (+91)7276282798 | chiragmakwana02@gmail.com | 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**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| * **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. | 06 |

**Experience**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **e-Yantra Lab MMCOE**  Robotics Engineering | *MMCOE, Pune*  *2016-2017* |
| * 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**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Design, Development and Kinematic Modeling of 10 Joint Modular Snake** | *Robotics*  *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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| * 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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

**Extra-Curricular Activities\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **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**  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. | *2015* |

**Interest\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| * 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.

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| Date: 25-Jun-18 | **Chirag Dipakkumar Makwana** |
| Place: Pune |  |