

# Tushar T Kolekar

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## CAREER OBJECTIVE

To work with an organization offering a responsible, challenging and creative work profile. Looking for a prospect where I can make a meaningful contribution in the growth of company.

## QALIFICATIONS

Course	University	Year of Passing	Grade/Percentile
M Tech (Mechatronics & Automation)	MIT ADT University	2020	8.5
BE (Mechanical Engineering)	Savitribai Phule Pune University	2017	68%
H.S.C	Maharashtra state Board	2013	64%
S.S.C	Maharashtra state Board	2011	84%

## SKILL

Languages	C++, PLC Ladder Programming, Python, HTML, PHP, SQL, Proteus
Technologies	Allen Bradley Software, RS Logix, Factory Talk View, Arduino Software

## INTERNSHIP

<b>Analogic Automation Pvt. Ltd</b>	<b>Jun 19 – Mar 20</b>
<ul style="list-style-type: none"><li>Logic development using “RS Logix 5000” software.</li><li>SCADA Screen development using “Factory Talk View” Software.</li><li>Making Data report Using SQL Software.</li><li>Tested the PLC program &amp; SCADA screens on training kit.</li><li>Tested Control Panels.</li></ul>	

## PROJECTS

<b>Development of Automatic Process Monitoring System for Material Handling system using IoT</b>	<b>Jan20 – Sept 20</b>
<ul style="list-style-type: none"><li>Using the Wi-Fi module, the Material Handling process parameter gets transmitted to a web server</li><li>Using Bluetooth module, Material Handling process parameter gets transmitted to wireless devices like Smartphones &amp; Laptops.</li><li>For data logging purpose SD card Module had used.</li><li>Developed PCB for complete system.</li><li>The complete System data store in Xampp Database.</li><li>Using Pandas, CSV File calling in python &amp; perform complex operations.</li><li>Selected Columns get printed in a txt file using File Handling Methods.</li><li>Using Matplotlib getting results in graphical form. (Linear Regression used)</li></ul>	
<b>Haldiram Material Handling process (Analogic Automation Pvt. Ltd)</b>	<b>Jan 20 – Mar 20</b>
<ul style="list-style-type: none"><li>Studied Material Handling System used in Industry &amp; make I/O List.</li><li>Developed PLC &amp; SCADA logic using RS Logix &amp; Factory Talk View Software.</li><li>Created Data report Using SQL Software.</li></ul>	

<b>Development of Solar Vehicle</b>	<b>Nov 18 -Mar 19</b>
<input type="checkbox"/> In solar vehicle, I have Designed & Developed Digital Speedometer, Collision Warning, Battery cooling & Temperature monitoring system.	
<input type="checkbox"/> The Bluetooth modules attach with the same system to transmitted system parameters to Smartphone.	
<input type="checkbox"/> For data monitoring, purpose LCD Display & Smartphone had used & data logging purpose SD card Module had used.	
<input type="checkbox"/> Developed PCB for complete system.	

<b>Development of Temperature &amp; Flow rate Measuring System</b>	<b>Sep 18 – Oct 18</b>
<input type="checkbox"/> Designed whole system using Proteus software	
<input type="checkbox"/> Developed whole system in PCB.	
<input type="checkbox"/> Uploaded logic using Arduino software.	
<input type="checkbox"/> In this project, real-time data user monitor through LCD Display.	

<b>Automatic Attendance Monitoring System using IoT</b>	<b>Jun 18 – Sep 18</b>
<input type="checkbox"/> Developed experimental setup using ESP8266 development board & RFID sensors, Atmega16 microcontroller IC, SD card module, LCD Display, Keyboard, etc.	
<input type="checkbox"/> Developed PCB for complete system.	
<input type="checkbox"/> Stored real-time sensor data into SD card module.	
<input type="checkbox"/> Uploaded real-time sensor data to HTML web page & same data had store in MySQL server.	
<input type="checkbox"/> Downloaded real-time sensor data from web page & MySQL server in pdf format.	

<b>Sending real-time Sensors data to Localhost using IoT</b>	<b>Jan 18 – Mar 18</b>
<input type="checkbox"/> Created Database using Xampp software	
<input type="checkbox"/> Developed experimental setup using ESP8266 development board & DHT11sensor	
<input type="checkbox"/> Uploaded real-time sensor data to HTML web page & same data had store in MySQL server.	
<input type="checkbox"/> Downloaded real-time sensor data from web page & MySQL server in pdf format.	

<b>Development of Dual axis Solar Tracker</b>	<b>Oct 17 – Dec 17</b>
<input type="checkbox"/> Designed & selection of component required for Dual axis solar tracking system	
<input type="checkbox"/> Developed experimental setup using ATmega16 development board, LDR sensors, LCD Display, motors, Solar panel, Motor drive, etc.	
<input type="checkbox"/> Developed PCB for complete system.	
<input type="checkbox"/> Uploaded logic & analysed result.	

<b>Development of Hydraulic oil cooler using Heat pipe concept</b>	<b>Jan 17 – Jun 17</b>
<input type="checkbox"/> Studied complete Hydraulic oil cooler system & Heat pipe concept.	
<input type="checkbox"/> Developed experimental setup using Heat sink, Pump, Heater, Measuring Tank, J Type Thermocouple, etc.	
<input type="checkbox"/> Calculating Heat transfer rate, Heat flux, effectiveness.	
<input type="checkbox"/> Analysed result & compared with shell & tube type Heat Exchanger.	

<b>MINI-PROJECTS</b>	
<input type="checkbox"/> Develop a simple calculator using Numpy & Tkinter library.	
<input type="checkbox"/> Develop a Unit converter cm to meter, millimetre, Pressure into Pascal, Kilo-pascal using Numpy, Scipy & Tkinter library	
<input type="checkbox"/> Develop Text to speech converter using Tkinter, GTTS & play sound library	
<input type="checkbox"/> Develop voice Instructor for input giving user using Tkinter, Play sound, Numpy library.	

EXTRA CURRICULAR ACTIVITY

- ☐ **Published Paper in SPRINGER:** Handbook of Smart Materials, Technologies, and Devices Applications of Industry 4.0  
**Title of Paper:** An Implementation of Arduino-Android based Platform for Real-Time Data logging of Control Parameters in the Process Automation Plant.
- ☐ **YouTube Channel: Automation for Pune**  
<https://www.youtube.com/channel/UCJwd3jc87fmuqZGKkCnnZPA>  
Data logger kit using Bluetooth Module: <https://youtu.be/twba52VkDt8>  
Dual Axis Solar Tracker: <https://youtu.be/LEg7CqigJ3M>  
Garbage collector Project: <https://youtu.be/Vp25DpMd5XU>  
Temperature & Flow Measuring System: <https://youtu.be/ugh6Z5AJS9o>  
Digital Speedometer: <https://www.youtube.com/watch?v=q4AEuKxcznY>
- ☐ **Participated in workshop on Refrigeration & Air Conditioning System organized by MIT School of Engineering.**
- ☐ **Participated in workshop in Arduino Technology organized by Robotics Embedded Education Services (P) LTD**
- ☐ **CYNOSURE National Level Techno Management Event, won 3<sup>rd</sup> Price in Line Follower Competition**

PERSONAL DETAILS

Date of Birth	24/04/1996
Nationality	Indian
Place	Pune
Languages	English, Hindi, Marathi

DECLARATION

I here assure that all the above-mentioned details are true to the best of my Knowledge and belief.

Tushar T Kolekar  
Date:  
Place: Pune