

## CONTACT

### LOKENDRA CHOUDHARY

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## EDUCATION

### IIT KANPUR

#### DUAL(BT-MT) IN MECHANICAL ENGINEERING

Dec 2019

Masters CGPA: 8.0/10.0

Bachelors CGPA 6.6/10.0

### XII (CBSE)

April 2014

Score: 94.2%

### X (CBSE)

April 2012

Score: 9.8/10.0

## LINKS

Github:// [lokendrachoudhary](#)

LinkedIn:// [lokendra100](#)

Facebook:// [lokendra100](#)

Twitter:// [@lokendra\\_loki](#)

Quora:// [Lokendra-Choudhary](#)

## COURSEWORK

### COURSES

Fundamental of Computing

Neural Networks

Introduction to Economics

Macroeconomics-I

Economic Growth Theory

Mechatronics

Probabilistic Mobile Robotics

Introduction to Robotics

Robot Motion Planning

Root Manipulators

### TEACHING ASST.

Engineering Graphics

Engineering design and Graphics

## SKILLS

### LANGUAGE

Matlab • Python • C • C++ • MySQL

HTML • CSS •  $\LaTeX$

### OPERATING SYSTEM

Linux • ROS

### DESIGN

AutoCAD • Autodesk Inventor

## EXPERIENCE

### SUMMER INTERN | CGP Pvt.LTD.

May 2017 – July 2017 | Under Mr. Sudarshan Karweer, VP Innovation | Mumbai

- Conducted market research on Indian Real-estate market.
- Identified key pain points faced by buyer and seller
- Determined features to be included in initial and advanced version of portal

### PRESIDENT | ASSOCIATION OF MECHANICAL ENGINEERS

July 2016 – June 2017 | IIT Kanpur

- Headed 15 member council, responsible for organizing yearlong activities of department involving total budget of INR 5 Lakhs

### STUDENT GUIDE | COUNSELLING SERVICE

July 2015 – May 2016 | IIT Kanpur

- Helped new batch students in acclimatizing to the institutes new environment
- Enthusiastically worked for smooth conduction of Orientation Program 2015

## RESEARCH

### THESIS WORK | MECHATRONICS LAB

May 2018 – Nov 2019 | Dr. Ashish Dutta, Dr. Anupam Saxena | IIT Kanpur

- Worked on "Design of a Compliant Hand Exoskeleton for Rehabilitation"
- Designed and prototyped a new hand exoskeleton which uses compliance to improve safety, force control and grasping capabilities of the exoskeleton
- Derived optimal 4 bar mechanism to have finger tip movement along natural finger trajectory using Genetic Algorithm
- Synthesized optimal shape of coupler to give proper compliance using FEM and Genetic Algorithm
- Implemented user intent based Pneumatic control for actuation of exoskeleton

## PROJECT

### Q-LEARNING IN GAMING

Jan 2017 – April 2017 | Dr. Laximadhar Behera | IIT Kanpur

- Developed a game environment with an intelligent agent which could avoid collision with other moving agents
- Used Q-Learning, a special type of Reinforcement Learning to make the agent learn correct actions

### HS BASED ALGORITHMS FOR ROBOT LOCALIZATION

July 2016 – November 2016 | Dr. Gaurav Pandey, | IIT Kanpur

- Implemented research paper - "A novel efficient algorithm for mobile robot localization", Robotics and Autonomous Systems 61.9 (2013): 920-931
- Successfully implemented Harmonic Search(HS) algorithm and Harmony memory Improvement with Differential Evolution (HIDE) with SLAM

## SCHOLASTIC ACHIEVEMENTS

- Recipient of Merit-Cum-Means(MCM) scholarship at IIT Kanpur
- Secured an AIR 3519 in JEE Advanced 2014 from a pool of 150K candidates
- Ranked among top 0.5% in JEE Mains 2014 among 1.3 million candidates
- Secured international rank 741 and state rank 56 in IMO 2013

## EXTRA-CURRICULAR ACTIVITIES

- Avid follower of new technologies, their potential applications and Startups
- Ran Lucknow Heritage Half Marathon on 3rd March 2019
- Regular blood donor