

Kshitij Khandelwal

<https://khandelwalkshitij.github.io>

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EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE (BITS), PILANI

BE (HONS) IN ELECTRICAL AND ELECTRONICS ENGINEERING
Aug 2015 - Jul 2019 (ExpeXted)
Pilani, Rajasthan, India
CGPA: 8.61/10

CLASS XII (MAHARASHTRA BOARD)

Shri Dawale Jr. College, Akola, India
Score: 93.08/100
Grad: May 2015

CLASS X (MAHARASHTRA BOARD)

Mount Carmel High School, Akola, India
Score: 97.82/100
Grad: May 2013

COURSEWORK

Electronic Devices
Microelectronic Circuits
Analog & Digital VLSI Design
Signals & Systems
Communication Systems
Digital Signal Processing

Computer Programming
Digital Design
Microprocessors & Interfacing
Computer Architecture

Electrical Sciences
Electromagnetic Theory
Electrical Machines
Control Systems
Neural Networks & Fuzzy Logic

ADDRESS

3116, Gandhi Bhawan,
BITS Pilani, Pilani Campus
Pilani, Rajasthan, India
PIN: 333031

University Webpage:// f2015156
LinkedIn:// khandelwalkshitij
Github:// khandelwalkshitij
Medium:// @khandelwal
Twitter:// @utopianflaws

EXPERIENCE

DRDO - SOLID STATE PHYSICS LABORATORY (SSPL)

SUMMER RESEARCH INTERN

MAY 2017 - JUL 2017 | New Delhi, India

- Worked on designing Microstrip Filters for RF Applications.
- Designed, simulated and optimized a L-Band Microstrip Low Pass Filter using ADS.

HYPERLOOP INDIA

CONTRL SYSTEMS ENGINEER

APR 2017 - PRESENT | Pilani, India | Bengaluru, India

- Worked on Control Algorithm for Braking and Trajectory of the OrcaPod.
- Working on Fuzzy Controller based solution for optimizing the Control Algorithm for Braking and Trajectory of the OrcaPod.
- Hyperloop India is the only Indian team and one of the only 24 University teams worldwide to have presented their Pod at SpaceX Competition Weekend II, 2017 in Los Angeles, CA.

PROJECTS

SOFT COMPUTING IN ELECTROMAGNETICS

STUDY PROJECT, BITS PILANI

JAN 2017 - May 2017 | Pilani, India

Study Project under Dr. Navneet Gupta, Head, Department of Electrical and Electronics Engineering, BITS Pilani on Optimization of Gain and Directivity of Microstrip Patch Antenna Arrays using Artificial Neural Networks and Bacterial Foraging Optimization.

DESIGN AND OPTIMIZATION OF L-BAND MICROSTRIP LOW PASS FILTER

SUMMER RESEARCH INTERN, DRDO - SSPL

MAY 2017 - JUL 2017 | New Delhi, India

Worked under Mr. Pritam Kr. Sinha, Scientist 'C', SSPL, DRDO to design, simulate and optimize a L-Band Microstrip Lowpass filter.

SKILLS

PROGRAMMING

MATLAB • C • Verilog • Python (numpy, scikit-image, scikit-learn, tensorflow, openCV) • Assembly (MASM and DebugX) • Shell • Perl • HTML • CSS

SOFTWARE

Cadence • Agilent ADS • LTSpice • MICROWIND • MODELSIM • NL LABVIEW

EXTRA-CURRICULAR

- 2017-18 Chair (Operations), ACM Student Chapter, BITS Pilani
- 2017-18 Student Representative, Codechef Student Chapter, BITS Pilani
- 2015-17 Core Team Member, ACM Student Chapter, BITS Pilani
- 2015-16 Teaching Volunteer, National Service Scheme

AWARDS

- 2013 National Talent Search Examination (NTSE) Scholar, Class VIII
- 2013 National Talent Search Examination (NTSE) Scholar, Class X