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Ashutosh Purohit

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EDUCATION

BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE

BE(Hons) Manufacturing Engineering
Junior | Pilani,India
CGPA: 8.38/10

NAVRACHANA HIGHER SECONDARY SCHOOL

12th Graduation
March 2015 | Baroda,India
Percentage: 93%

BHARTIYA VIDYA BHAVANS

10th Graduation
March 2013| Baroda, India
CGPA: 10/10

LINKS

Facebook://AshutoshP24
LinkedIn://AshutoshP
Twitter://@AP
Quora://Ashu

COURSEWORK

UNDERGRADUATE

Manufacturing Processes
Manufacturing Management
Supply Chain Management
Fluid Mechanics
Kinematics and Dynamics of Mechanisms
Machine Design and Drawing
Neural Networks and Fuzzy Logic
Object Oriented Programing

MOOCS

Neural Networks by Jefery Hinton
Algorithms by California Institute of Technology

SKILLS

PROGRAMMING

Over 5000 lines
• Java • C • Python

SOFTWARES

• Solidworks • Linkage • COMSOL
• Arduino

EXPERIENCE

INDIAN SPACE RESEARCH ORGANIZATION | RESEARCH INTERN

May 2017 - July 2017 | Jodhpur,India

- Created a **neural network implementing the googLENET algorithm** to detect windmills in a given satellite image and achieved an **accuracy of 95%**
- Mentored by **Dr Rakesh Paliwal, Sr Scientist ,ISRO**
- The program so developed **will be used by ISRO for further research**

DUBAI PRECAST CONCRETE | SUMMER INTERN

June 2016 - July 2016 | Dubai

- **Paid intern** in the Design department
- Introduced the design team to the **benefits of SolidWorks in performing stress –strain as well as other simulations** on hollow core slabs and other precast elements

PROJECTS

EFFECT OF CUTTING TOOL PARAMETERS ON SURFACE ROUGHNESS USING NEURAL NETWORKS | BITS PILANI

Feb 2017 | Pilani, India

Worked in a **2 membered team** to evaluate cutting tool parameters to obtain minimal surface roughness in a mild steel rod using neural networks.

DESIGNING AND MANUFACTURING AN AUTONOMOUS ROBOT AND A SEMI-AUTONOMOUS ROBOT | ABU ROBOCON 2016

Mar 2016 | Pune,India

Designed and Manufactured the Hybrid bot which is a **semi-autonomous robot** capable of **line following, climbing poles and also powering the Eco bot**, a small autonomous bot adept in line following, to compete in a pan Asia Competition.

DESIGNING AND MANUFACTURING A MANUAL DISK PROPELLING BOT | ABU ROBOCON 2017

Mar 2017 | Pune,India

Designed and manufactured a bot proficient in not only **throwing disks at a given distance and height**,but also **line following**, to compete in a pan Asia Competition.

AWARDS

2012 **City topper** and state rank **105th** National Science Talent Search Examination
2012 **City topper** and state rank **22nd** International English Olympiad

POSITIONS OF RESPONSIBILITY

[1] One of the six **core members** of the **Junior Placement Committee**
[2] **Event Coordinator** in the Manufacturing division
[3] **Mechanical subsystem lead** for Team Robocon