

# VISHAL KUMAR

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## Summary

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A passionate and hardworking computer engineering individual who looks forward to growth and achieving more and more expertise in his field. A Graduated from QUAID-E-AWAM University of Science and Technology Nawabshah, and fully funded post graduated scholar from Harbin Institute of Technology Harbin, with a diverse exposure of International Publications alongside carrying strong social circle is what defines me. Along with having a great expertise in computer and troubleshooting and maintaining hardware, Vishal possesses great interpersonal, motivational and communication skills and can be an all-rounder for an employer.

## Research work (Bachelors project)

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- Designed six degree of freedom articulated robotic arm, it detects object through raspberry pi 3 and servos can be controlled by Arduino mega 2560. Main purpose of this project is to pick and place object

## Research work (Masters Project)

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- Designed six degree of freedom articulated robotic car, it detects Tennis ball through camera that connects with raspberry pi 3 then it send signal to Arduino mega 2560 to perform ball collecting robotic car.

## Publications

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- **Vishal Kumar**, Wang Qiang “Computer Vision Based Object Grasping 6DOF Robotic Arm Using Camera” **4<sup>th</sup> International Conference on Control, Automation and Robotics** held at Auckland New Zealand 20-23 April IEEE conference EI indexed.
- **Vishal Kumar**, Asif Ali laghari, Shahid KARIM, Shakir Muhammad SHAIKH “Fog Computing vs Cloud Computing” Journal paper (**International Journal of Computer Network and Security**) (paper under review).
- Shakir Muhammad SHAIKH, Yin SHEN, **Vishal Kumar**, Asif Ali LAGHARI, Shahid KARIM "**Process Monitoring Using Canonical correlation analysis**" in Studies in Informatics and Control general **SCI (IF 0.776), paper Accepted.**
- M. Ibrar, Jianing Mi, S. Karim, A. A. Laghari, S. M. Shaikh and **Vishal Kumar** "Improvement of Large-Vehicle Detection and Monitoring on CPEC Route" 3D Research,(2018), **Paper Accepted.**

## Work Experience

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- Internship at PTCL Sukkur, 6 Weeks June 2014 - July 2014

## Short Summer Course

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“Intelligent Robot” International Summer School, held at Harbin Institute of Technology china, 10<sup>th</sup> July, 2017 to 29<sup>th</sup> July, 2017

## Qualification

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| Degree                   | Year | Institution   | Qualification                                | Grade / GPA |
|--------------------------|------|---|--|-------------|
| Masters of Engineering   | 2018 | Harbin Institute of Technology (HIT), China                                       | Control (Electrical) Science and Engineering | 87%         |
| Bachelors of Engineering | 2016 | Quaid-e-Awam University of Engineering, Science and Technology (QUEST), Nawabshah | Computer System Engineering                  | 74%         |
| Intermediate             | 2011 | Govt Islamia Science College Sukkur   | Pre-Engineering                              | 67%         |
| Matriculation            | 2009 | Govt Boys High School Sukkur  | Science                                      | 66%         |

### Technical Skills / Simulation Software

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- ◆ Computer Networking
- ◆ Image Processing (Matlab)
- ◆ Office automation (Word, Excel, Power point)
- ◆ Strong skills about installations, updating and maintenance of Software.

### Job Related Skills

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- ◆ Programming language skills (Assembly languages, C/C++, Python, Linux, Matlab)
- ◆ Electronics Circuit designing skills (Proteus, PCB designing)
- ◆ Robotics
- ◆ Computer Vision
- ◆ Micro controller programming (Arduino, Raspberry Pi)
- ◆ Networking (CCNA)

### Organizational / Managerial Skills

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- ◆ Excellent leadership qualities
- ◆ Quality of dealing clients
- ◆ Strong sense of responsibility

### Communication Skills

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- ◆ Excellent communication skills gained through my experience in dealing with companies as Internee during my working experience.
- ◆ Excellent communication and contact skills gained during stay in China.

### Extra-Curricular Activities

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- ◆ Organized one day Workshop “A journey Towards Social Engineering” at Quest Nawabshah.
- ◆ Attended Quest Model United Nation 2015 as Delegate.
- ◆ Attended Career Development Workshop 2014 at Quest Nawabshah.

### Research Interest

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- ◆ Image processing
- ◆ Computer vision
- ◆ Robotics
- ◆ Cloud Networking

### Languages

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- ◆ English
- ◆ Urdu
- ◆ Sindhi
- ◆ Chinese