

KALPESH PATIL

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• LinkedIn Profile: <http://www.linkedin.com/in/kalpesh33>

EDUCATION

The George Washington University	Washington, DC
Master of Science in Mechanical Engineering, Concentration: Robotics, Mechatronics & Control	May 2017
Fr. C. Rodrigues Institute of Technology	Mumbai, India
Bachelor of Engineering in Mechanical Engineering	May 2015

WORK EXPERIENCE

Officials of Naval Research	Washington, DC
<i>Project: Ship air wake</i>	September 2015-Present
<ul style="list-style-type: none">• Programming on Arduino for reading data from Anemometer and GPS over serial port.• Designing On-hover & for-Host computer power distribution PCB board using EAGLE.• Construction of case for the power system using SketchUp make and 3D printing it.	
School of Engineering & Applied Science (SEAS) Computing Facility	Washington, DC
<i>Lab Technician</i>	October 2015-Present
<ul style="list-style-type: none">• My responsibility is to provide computer technical assistance to School's faculty, staff and students using the computing Facility's extensive computer labs. These labs are equipped with current Dell desktop and workstation computer systems and Sun Microsystems workstation that utilizes sun Solaris and Dell/Microsoft servers, and a very comprehensive set of engineering and computer science software.• Troubleshoot hardware such as computers, printers, scanners and projectors in response to support tickets• Regular maintenance of SEAS university printers, scanners and Audio Visual (AV) systems	

CONFERENCE

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- Kalpesh Patil & Gauri Thorat, "Numerical Simulation of Window Air Conditioner" in Proceedings of 2015 International Conference of Nascent Technologies of Engineering, Fr C. Rodrigues Institute of Technology, Vashi, India January 2015.

PUBLICATIONS

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- **Kalpesh Patil & Gauri Thorat, *Numerical Simulation of Window Air Conditioner*, International Journal of Engineering Research and Technology, pp 184-188, January 2015**
 - **Kalpesh Patil, Gauri Thorat, Mathewlal T et al., *Numerical Simulation of Window Air Conditioner*, International Journal of Engineering Technology Science and Research, ISSN 2394 – 3386 Volume 2 Issue 9, September 2015**

PROJECT

Fr. C. Rodrigues Institute of Technology	Mumbai, India
<i>Design, Simulation and Fabrication of a Window Air Conditioner Test Rig</i>	Aug 2014 - April 2015
<ul style="list-style-type: none">• Analyzed Power consumption, coefficient of performance and work done by varying performance parameters such as the expansion valve size and refrigerants.• Observed and calculated all parameters using sensors, which were fitted at their respective positions in the refrigeration cycle.• Utilized Mathematical Numerical Simulation Model of compressor and various components to verify performance parameters compared to actual performances.	

TECHNICAL & LANGUAGE SKILLS

CAD Tools	:	SketchUp, Autocad, Solid Works, Pro-Engineering & Inventor
Computer Skills	:	Microsoft Office (Word, Excel, PowerPoint & Publisher)
Computer languages	:	Java, C & C++, Scilab, MATLAB
Hardware Languages	:	Arduino, Eagle
Simulation Tools	:	Ansys, Simulink, profili

HONORS & LEADERSHIP

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- **IIT Bombay Techfest 2015, Nitro Car Controller (Awarded 1st Place)**, Event: Design, Fabrication of small-scale remote controlled Nitro car including time lap race, January 2015.
 - **IIT Bombay Zephyr (Boeing) 2014, Plane Pilot**, Event: Boeing IIT National Aero modelling, Responsible for constructing plane that could perform various maneuvers, February 2014.
 - **Mechanical Engineering Students Association, Secretary**, 2013-2014.