

# Hammad Munawar

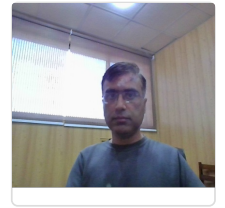
Defence Faculty

College of Aeronautical Engineering

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## About

Dr. Hammad Munawar is working as Defence Faculty in the College of Aeronautical Engineering. Dr. Hammad Munawar has a PhD in Control Systems Engineering. Dr. Hammad Munawar has published 9 research articles & conference papers having a citation count of 9, carried out 6 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Control Systems Engineering</b> Sabanci University , Pakistan	2013 - 2017
<b>MS in Control Systems Engineering</b> Air University , Pakistan	2008 - 2012
<b>BE in Avionics</b> NUST, Islamabad , Pakistan	1997 - 2001

## Experience

<b>Defence Faculty</b> College of Aeronautical Engineering	2022- Present
<b>Defence Faculty</b> College of Aeronautical Engineering	2017 - 2022
<b>PAF</b> PAF , Air Headquarters, E-9, Islamabad	2001 - 2017

## Professional Memberships

<b>PEC</b>	Since 2018
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## Research Projects

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### National Projects

<b>Prototype Development of Wireless Haptic Glove for hand interface with robotic claw</b> <b>Funding Agency:</b> IGNITE <b>Amount:</b> PKR 72,950.00 <b>Status:</b> Completed	2019
<b>Autonomous Indoor Navigation through Quadcopter in GPS denied environment</b> <b>Funding Agency:</b> IGNITE <b>Amount:</b> PKR 80,000.00 <b>Status:</b> Completed	2019
<b>Design and Prototype Development of a Haptic Claw for Interacting with Virtual Reality</b> <b>Funding Agency:</b> HEC <b>Amount:</b> PKR 500,000.00 <b>Status:</b> Completed	2019
<b>Design, Development and control of one DOF encounter type haptic device</b> <b>Funding Agency:</b> IGNITE <b>Amount:</b> PKR 70,000.00 <b>Status:</b> Completed	2018
<b>Design and prototype Development of Haptic Claw for interacting with virtual reality</b> <b>Funding Agency:</b> HEC <b>Amount:</b> PKR 470,000.00 <b>Status:</b> Approved_inprocess	2019
<b>IoTVault - An automated ranker and recommender system soar security of IoT configuration</b> <b>Funding Agency:</b> HEC <b>Amount:</b> PKR 481,000.00 <b>Status:</b> Completed	2019

### International Projects

## Research Articles

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<b>Design, modeling and control of an index finger exoskeleton for rehabilitation</b> <i>Hassan Talat Hammad Munawar Hamza Hussain Usama Azam</i> <i>Robotica</i> , Pages 1-25 <b>Impact Factor:</b> 2.088   <b>Quartile:</b> 3   <b>Citations:</b> 9 <b>DOI:</b> <a href="https://doi.org/10.1017/S0263574722000388">https://doi.org/10.1017/S0263574722000388</a>	2022
<b>From Monocular to Learned vSLAM</b> <i>Ussama Maqbool Hammad Munawar Abdur Rahman</i> <i>Technology Forces Journal of Engineering and Sciences</i> , Volume 3(2), Pages 28-43 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="https://kiet.edu.pk/technologyforces/index.php/technologyforces/article/view/40">https://kiet.edu.pk/technologyforces/index.php/technologyforces/article/view/40</a>	2021
<b>System Identification and Controller Design for Hydraulic Actuator</b> <i>Zainab Nisar Hammad Munawar</i> <i>Technology Forces Journal of Engineering and Sciences</i> , Volume 3(2), Pages 11-27 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="https://kiet.edu.pk/technologyforces/index.php/technologyforces/article/view/38">https://kiet.edu.pk/technologyforces/index.php/technologyforces/article/view/38</a>	2021

- Design and FEM Analysis of Miniature Torque Sensor for Finger Exoskeleton** 2021  
*Faryal Gula Hammad Munawar Amir Hamza*  
*2021 International Conference on Robotics and Automation in Industry (ICRAI)*, res.country(177,)  
**Citations:** N/A  
**DOI:** 10.1109/ICRAI54018.2021.9651427
- A Low Cost 1-DoF Encounter Type Haptic Device for Use in Education** 2019  
*Ahmad Javaid Armughan Mohyuddin Hammad Munawar*  
*International Conference on Robotics and Automation in Industry (ICRAI)*, res.country(177,)  
**Citations:** N/A  
**DOI:** 10.1109/ICRAI47710.2019.8967395
- Gravity-assist: A series elastic body weight support system with inertia compensation** 2016  
*Hammad Munawar Volkan Patoglu*  
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, res.country(121,)  
**Citations:** N/A  
**DOI:** 10.1109/IROS.2016.7759470
- Redundant kinematics and workspace centering control of AssistOn-Gait overground gait and balance trainer** 2016  
*Hammad Munawar Mustafa Yalcin Volkan Patoglu*  
*IEEE International Conference on Robotics and Automation (ICRA)*, res.country(196,)  
**Citations:** N/A  
**DOI:** 10.1109/ICRA.2016.7487556
- AssistOn-Gait: a robot-assisted gait trainer with an active pelvis-hip exoskeleton** 2015  
*Hammad Munawar Mustafa Yalcin Volkan Patoglu Hammad Munawar Mustafa Yalcin Volkan Patoglu*  
*Türkiye Robotbilim Konferansı (ToRK)*, res.country(224,)  
**Citations:** N/A  
**DOI:** <https://tork2015.itu.edu.tr/index.php>
- AssistOn-Gait: An overground gait trainer with an active pelvis-hip exoskeleton** 2015  
*Hammad Munawar Mustafa Yalcin Volkan Patoglu*  
*IEEE International Conference on Rehabilitation Robotics (ICORR)*, res.country(197,)  
**Citations:** N/A  
**DOI:** 10.1109/ICORR.2015.7281265