

KAMIL HASSAAN

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EDUCATION

Bachelor of Computer Science University of Central Punjab	Sep 2015 – July 2019
Intermediate in Pre-Engineering Punjab Group of Colleges	Sep 2013 – April 2015
O-Level in Pre-Engineering Lahore Grammar School	Sep 2010 – May 2013

RESEARCH WORK

Technical University of Kaiserslautern, Germany Visiting Researcher at Robotics Research Lab (RRLab)	July 2019 - Sep 2019
<ul style="list-style-type: none">➤ Utilized Image Processing algorithms for the detection of trees; Watershed Algorithm and Template Matching Algorithm➤ Used two Machine Learning algorithms; Keras and Convolutional Neural Network➤ Created a replica of a scene on Unreal Engine 4 from the collected dataset➤ Integrated Robot Operating System (ROS) with the engine➤ Improved the accuracy from 5% to 40%	

RELATED EXPERIENCES

Final year project	July 2018 - July 2019
<ul style="list-style-type: none">➤ Detected trees using aerial imagery, i.e., RGB images➤ Implemented different Image Process algorithms; Texture analysis algorithm and Active contour modeling➤ Constructed a quad-copter in Unreal Engine 4 and created a simulated environment of forest on the Engine	
Detection of trees in aerial images captured from DJI Phantom	Jan 2019 – Feb 2019
<ul style="list-style-type: none">➤ Took advantage of concurrent threading on Active Contour Modeling to speed up the detection of trees➤ Sped up the detection from an average of 26 seconds to an average of 1 second.	
Tourism management Mobile Application and Website	Jan 2018 – Feb 2018
<ul style="list-style-type: none">➤ Used Android Studio for the construction of the mobile application➤ Utilized different frameworks for the website. Such as: HTML, Bootstrap and Cascade Style Sheet.	

PROGRAMMING LANGUAGES/SKILLS

- C++
 - Python
 - Linux: Ubuntu, Kubuntu, Kali
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HONORS/CERTIFICATIONS

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| <ul style="list-style-type: none">➤ Certification in <i>Ethical Hacking from Corvit</i>
Studied techniques like windows and linux password cracking, brute force password cracking, steganography, phishing, social engineering, man in the middle attack and metasploit-framework➤ Participated in Brainiac UET 2018➤ Attended PyCon 2018➤ Attended ACM cyber security conference 2019➤ Participated in WFAR 2019 | Nov 2019 – Feb 2020 |
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