Atif Anwer

PhD Student

Islamabad, Pakistan
contact@atifanwer.xyz
+(92) 333 5198304
www.atifanwer.xyz

An enthusiastic, innovative seasoned Mechatronics engineer with an appetite for learning, creativity & currently tackling a challenging research problem in his PhD.

Strong background in robot vision, image processing, additive manufacturing and mechanical design & development.

Education:

PhD. ELECTRICAL & ELECTRONIC ENGINEERING
Jan 2019 - Present
Universiti Teknologi PETRONAS (UTP), Malaysia
INSA Rouen, Normandy University, France
Thesis Title: Tensor Based Specular Highlight Mitigation Method: An Application to ADAS systems

Msc. ELECTRICAL & ELECTRONIC ENGINEERING (BY RESEARCH)
Jan 2016 - Dec 2017
Universiti Teknologi PETRONAS (UTP), Malaysia
Thesis Title: Real-time underwater 3D scene reconstruction using Kinect v2 camera

B.E. MECHATRONICS
Jan 2001 - May 2004
National University of Sciences & Technology (NUST), Rawalpindi, Pakistan
College of Electrical & Mechanical Engineering

Selected Publications:

- **A. Anwer**, *S. S. A. Ali, A. Khan and F. Mériaudeau, "Underwater 3D Scene Reconstruction Using new Kinect sensor Based on Physical Models for Refraction and Time of Flight Correction", IEEE Access, 2017 (Q1, IF: 3.244)*
- **A. Anwer**, *S. S. A. Ali, A. Khan, F. Mériaudeau, "Underwater 3D scanning using Kinect v2 Time of flight camera" in 13th International Conference on Quality Control by Artificial Vision (QCAV2017). 14-16 May 2017*
- **A. Anwer**, S. S. A. Ali, A. Khan, F. Mériaudeau, "Real-Time Underwater 3D Scene Reconstruct Using Commercial Depth Sensor" in IEEE 6th International Conference on Underwater System Technology: Theory and Applications December 2016

Interests:

- Vision and Perception
- Robot Vision
- Mechatronic Systems
- Additive Manufacturing
- Augmented Reality

Skills

Programming Languages:
MATLAB, Python, C#, C/C++

3D Modeling and Rendering:
PTC Creo, Sketchup, Blender

Design and Illustration:
Photoshop, Corel Draw, Affinity Designer, Adobe XD

Others:
OpenCV, Git, LaTeX

Languages:

Urdu Native	● ● ● ● ●
English Proficient	● ● ● ● ● IELTS Band 8.0

Interests:

- Avid Book reading (Fiction / Sci-Fi genre)
- Solo / competitive PC gaming
- Creative design and 3D modeling
- Cricket, Table Tennis

Courses & Certifications

Pyimagesearch.com

- Deep Learning for Computer Vision with Python
  In progress
- Practical Python and OpenCV
  June 2017

Queens University of Technology (MOOC)

- Robotic Vision - October 2016

Muhammad Ali Jinnah University (MAJU), Islamabad

- Advanced Digital Image Processing - Fall 2012
- Computer Vision - Spring 2011
- Nonlinear Control Systems - Spring 2010
- Robust Control System - Spring 2010
- Pattern Recognition - Fall 2010

Work Experience

- **Design Consultancy**
  Dec '17 - Present
  Consulting, design and developing various design and 3D modeling based projects
- **Humense**
  (Part-time/Project based)
  Nov '17 - Feb '18
  Developing smart solutions to unique problems related to Multi-Kinect 3D reconstruction for VR (Virtual Reality) application
- **Scifacterz (Startup venture)**
  Co-Founder & CTO
  2015-2016
  A Robotics Startup venture centered on cutting edge projects in various domains including "NBE (Non Biological Entity)"; an open-source, low cost, research platform and Home Service Robot
- **Manager (Mechatronics)**
  2005 - 2014
  Various research positions in the industry with a combination of Mechanical, Electronics Design research and

Extra Curricular and Pro-Bono

- **WCCFTECH.com**
  2010-2011
  Hardware Reviewer / Blogger
- **Micronet Broadband Pvt Ltd.**
  Lead Server Administrator
  2015-2016
  Voluntary lead gaming server and head forum manager

References

Dr. Nidal Kamel
Associate Professor
Center of Intelligent Signal and Imaging Research (CISIR)
Department of Electrical and Electronic Engineering
Universiti Teknologi PETRONAS, Malaysia
nidalkamel@utp.edu.my

Dr. Samia Ainouz
MCF-HDR
Laboratoire Information, Traitement de l'Information
et des Systèmes (LITIS)
INSA Rouen Normandie, France
samia.ainouz@insa-rouen.fr

Dr. Fabrice Mériaudeau
Professor
University of Burgundy,
Dijon, France
fabrice.meriaudeau@u-bourgogne.fr

Contact:

Google Scholar:
https://goo.gl/YLaLBP

ORCID:
000-0002-5412-3263

Research Gate:
researchgate.net/Atif_Anwer

GitHub:
github.com/Atif-Anwer

Stack Overflow:
users/6799468/atif-anwer