

Shafeeq Elanattil

COMPUTER VISION RESEARCHER

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Education

Commonwealth Scientific and Industrial Research Organisation (CSIRO)

Queensland University of Technology (QUT)

PHD. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

- Joint PhD program.

Brisbane, Queensland, Australia

Sep 2019(expected)

Indian Institute of Technology, Bombay (IITB)

M.TECH IN ELECTRONIC SYSTEM DESIGN

College of Engineering Trivandrum (CET)

B. TECH IN APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING

Mumbai, India

June 2012

Trivandrum, India

May 2010

Experience

Data61, CSIRO

PHD STUDENT

- Research of 3D Dense Modelling of Deformable Human Body Parts)
- Current research focused on non-rigid motion tracking and 3D Reconstruction human subjects using RGB-D camera

Brisbane, Queensland, Australia

Mar. 2016 - Nov. 2019(expected)

Kritikal Solutions Pvt Ltd

DESIGN ENGINEER

- Worked in a team that makes cars read and recognize traffic road signs, that too with high accuracy and at a very high speed.
- Traffic Sign Recognition (detection and classification), OCR on supplementary signs. Responsibility included both image processing and machine learning.

Bangalore, India

Jul. 2014 - Nov. 2015

Vvidia Communications

RESEARCH ENGINEER

- SFM, Visual SLAM and monocular tracking/mapping for markerless Augmented Reality applications.

Mumbai, India

July 2012 - Nov. 2013

Applied Power Electronics Lab

TEACHING ASSISTANT

- Developed an embedded system for stereo based 3D reconstruction system.
- Research and development into an efficient FPGA based hardware system for 3D reconstruction from stereo images.

IITB, Mumbai, India

May. 2010 - Dec. 2011

Publications

Conferences

- **SHAFEEQ ELANATTIL**, PEYMAN MOGHADAM, SIMON DENMAN, SRIDHA SRIDHARAN, CLINTON FOOKES, "SKELETONDEFORM: RGB-D BASED NON-RIGID 3D RECONSTRUCTION OF HUMAN BODIES USING 2D SKELETONS", SUBMITTED TO BMVC, 2019.
- **SHAFEEQ ELANATTIL**, PEYMAN MOGHADAM, SIMON DENMAN, SRIDHA SRIDHARAN, CLINTON FOOKES, "SKELETON DRIVEN NON-RIGID MOTION TRACKING AND 3D RECONSTRUCTION", DICTA 2018.
- **SHAFEEQ ELANATTIL**, PEYMAN MOGHADAM, SIMON DENMAN, SRIDHA SRIDHARAN, CLINTON FOOKES, MARK COX, "NON-RIGID RECONSTRUCTION WITH A SINGLE MOVING RGB-D CAMERA", ICPR 2018.
- **SHAFEEQ ELANATTIL**, AGNIVA SENGUPTA, "NEW FEATURE DETECTION MECHANISM FOR EXTENDED KALMAN FILTER BASED MONOCULAR SLAM WITH 1-POINT RANSAC", MIKE 2015.

Journal

- **SHAFEEQ ELANATTIL**, PEYMAN MOGHADAM, SIMON DENMAN, SRIDHA SRIDHARAN, CLINTON FOOKES, "ROBUST HUMAN PERFORMANCE CAPTURE USING ADAPTIVE SKELETON CONSTRAINTS", UNDER REVIEW.

Positions of Responsibility

2011	Teaching Assistant , Experimentation and Measurements Laboratory (IC 211), Microprocessor lab (EE 309), Digital Electronics lab (EE211)	<i>Mumbai, India</i>
2012	PG Sports Secretary of Electrical Department in IITB , Responsible for departmental team selection and organisation of sports competitions in PG Sports 2011	<i>Mumbai, India</i>

Competitions

2011	1st place , Robosoccer in Sanskriti-10 conducted in Mar Athanasius College of Engineering (MACE).	<i>Kothamangalam, India</i>
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Achievements

Scholarship	Commonwealth Scientific and Industrial Research Organisation (CSIRO) - Queensland University of Technology (QUT) Scholarship (AUD \$26k p.a.)	2016-2019
Rank	Secured All India Rank 49 in Graduate Aptitude Test Engineering 2010	2010
Scholarship	Teaching Assistantship Scholarship, Indian Institute of Technology, Bombay (IITB).	2010-2012

Skills

- Programming**
- Adept in C/C++, Matlab, Python, PCL, OpenCV, git, TensorFlow, Cuda
 - Prior experience with , Pytorch, OpenGL, ROS, Shader