

Dr Anas Abuzaina BEng, PhD

Contact Information	Email: anas@abuzaina.com anas.abuzaina@gmail.com Web: www.abuzaina.com
Education	University of Southampton 10/2011 : 03/2015 <u>PhD Computer Vision.</u> Title: On Evidence Gathering in 3D Point Clouds of Static and Moving Objects. Supervisors: Prof. Mark S. Nixon and Dr. John N. Carter. University of Southampton 10/2008 : 07/2011 <u>BEng Electronic Engineering - First Class Honours.</u> Relevant courses: Artificial Intelligence, Image Processing, Computer Graphics, Machine Learning, Intelligent Algorithms, Electronic Design, Software Development, Computer Systems Engineering, Advanced Computer Architecture.
Interests/ Skills	Feature extraction, low-level image processing, structure from motion, multiple view geometry, 3D reconstruction, camera calibration, object recognition, object tracking, point cloud processing, 3D sensors, RGBD. C, C++, MATLAB, Python, OpenCV, PCL.
Professional Experience	Computer Vision Engineer - Hudl 09/2015 : 01/2018 Hudl, 2nd Floor, Suncourt House, 18-26 Essex Road, London. N1 8LN Computer Vision Engineer - Hawk-Eye Innovations, Sony Europe 10/2014 : 03/2015 Sony Europe, Jays Close, Viables, Basingstoke, RG22 4SB, UK. Web Developer - Joulo (www.joulo.com) 12/2013 : 04/2014 Award winning smart energy/machine learning startup, acquired by Quby Energy. DSP Engineer - Multiple Access Communications ltd. 06 : 10 /2011 Delta House, Southampton Science Park, Southampton SO16 7NS, UK. Computer Vision Developer - IT Innovation Centre 06 : 10 /2010 Gamma House, Southampton Science Park, Southampton SO16 7NS, UK. Graphic/Web Designer - University of Southampton (Part-time) 02/2010 : 02/2013 Building 59, University Road, Southampton, SO17 1BJ, UK. Web Developer/Graphic Designer - Bland Group 06 : 10 /2009 Hercules House , Merlin Quay , Hazel Road, Southampton, SO19 7GB, UK.

Awards

Zepler Project Prize – University of Southampton, 2011
Best final year project award in the School of Electronics and Computer Science.
Project title: Multiple overlapped projections for enhanced view synthesis.

EPSRC Studentship – Engineering and Physical Sciences Research Council
Full PhD studentship for three years.

Publications

- [1] Sphere detection in Kinect point clouds via the 3D Hough transform (2013). Abuzaina, A., Nixon, M. S., Carter, J. N. In 15th International Conference on Computer Analysis of Images and Patterns.
- [2] Detecting moving spheres in 3D point clouds via the 3D velocity Hough transform (2013). Abuzaina, A., Alathari T., Nixon, M. S., Carter, J. N. In IEEE 11th Image, Video, and Multidimensional Signal Processing Workshop.
- [3] 3D moving object reconstruction by temporal accumulation (2014). Abuzaina, A., Nixon, M. S., Carter, J. N. In 22nd International Conference on Pattern Recognition.
- [4] 3D motion estimation by evidence gathering (2016). Abuzaina, A., Nixon, M. S., Carter, J. N. In 23rd International Conference on Pattern Recognition.