

Walid Abdallah Aboumandour DARWISH

Address:

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Geomatics Engineering Barnch



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Research Interest	Indoor Positioning and Modelling Mobile Mapping Systems for Indoor Environments SLAM algorithms and Models Low cost depth sensors navigation and tracking RGB-D sensors calibration for surveying applications Photogrammetry and Robots application in construction industry Machine learning application for spatial data and VR, AR based construction application
Education	Ph.D. Degree: 09/2014 - 06/2018 Department of Land Surveying and Geo-Informatics (LSGI), Faculty of Construction and Environment (FCE), The Hong Kong Polytechnic University. <u>Ph.D. Courses:</u> GPA (3.95) out of 4.5 <u>Thesis Title:</u> “Precise Reconstruction of Indoor Environments Using RGB-Depth Sensors” M.Sc. Degree: 09/2010 - 09/2014 Civil Engineering Department, Faculty of Engineering, Cairo University. Geomatics Engineering <u>M.Sc. Courses:</u> Distinction: GPA (3.8) out of 4 (ranked 1 st among 10 students). <u>Thesis Title:</u> “The Reliability of Using GNSS Precise Point Positioning PPP in Replacing the Traditional Network Positioning Technique” B.Sc. Degree: 09/2005 - 05/2010 Civil Engineering Department, Faculty of Engineering, Cairo University. Civil Engineering: Distinction with Honor Degree: 87.69% (ranked 6 th among 400 students). Graduation project in Geomatics: (Distinction): ranked 1 st .
Awards	1. The Hong Kong PhD fellowship, 2014, Hong Kong 2. 3-years PhD tuition scholarship, The Hong Kong Polytechnic University, 2014. 3. Cairo University scholarship for distinguished undergraduate students, year 2009/2010 4. Cairo University scholarship for distinguished undergraduate students, year 2008/2009 5. Selected as Cairo University representative for International training at Tishreen University, Syria, 2008. (For distinguished undergraduate students) 6. Cairo University scholarship for distinguished undergraduate students, year 2007/2008 Cairo University scholarship for distinguished undergraduate students, year 2006/2007
Experience	6/2018 – now <u>Postdoc Researcher</u> Department of Electronic and Informatics (ETRO), Faculty of Construction and Environment (FCE), Vrije Universiteit Brussel (VUB).

	<p>9/2014 – 6/2018 <u>Ph.D. Researcher</u> Department of Land Surveying and Geo-Informatics (LSGI), Faculty of Construction and Environment (FCE), The Hong Kong Polytechnic University</p> <p>9/2017 – 6/2018 <u>Research associate</u> Department of Land Surveying and Geo-Informatics (LSGI), Faculty of Construction and Environment (FCE), The Hong Kong Polytechnic University <u>Primary responsibility</u> Guide the research group of indoor 3D modelling using the commercial RGBD cameras and the model completeness to produce a thorough 3D model</p> <p>10/2010 - 09/2014 <u>Graduate Research and Teaching Assistant</u> Civil Engineering Department, Faculty of Engineering, Cairo University. Job duties included assistance in teaching the following undergraduate courses: <i>Surveying (1)</i>, <i>Surveying (2)</i>, <i>Surveying for Engineering (B.Sc. Credit Hour Program)</i>, <i>Special Topics in Civil Engineering (B.Sc. Credit Hour Program)</i>, <i>Surveying Engineering B.Sc. Project</i>, <i>Geographic Information Systems (B.Sc. Credit Hour Program)</i>, <i>Satellite geodesy and map projection</i>.</p> <p>Coursework includes: GIS, digital mapping, data adjustment, Photogrammetry, remote sensing, CAD drafting, digital image processing, advanced computer programming, numerical analysis, Land surveying, topographic surveying, map projections and geometric geodesy, GPS surveying</p> <p>8/2010 - 9/2014 <u>Surveying Engineer</u> Surveying Research Laboratory, Cairo University, Giza, Egypt. <u>Primary responsibility</u> 7. Participated in different construction and topographic surveying projects.</p>
Computer Skills	Computer Programming Languages: C++ (Basic), MATLAB Digital Mapping Packages: AutoCAD. GIS software: ArcGIS (Basic).
Social Activities	<p>2010 – now Member, Egyptian Engineers Syndicate</p> <p>2011 - now Member Cairo University Club Member of ESHRAQ Society for human development and improving skills in Cairo University</p>
Language	<p>Arabic: Fluent (read, written and spoken). English: Excellent (read, written and spoken). French: Basic communication skills.</p>
Hobbies	<p>Sports: Soccer and Swimming. Reading.</p>
References	Available upon request.