

9 Summerland Pl. Pullenvale, Queensland, Australia, 4069

□+61-401308525, | Secopark86@gmail.com | Ahttps://copark86.github.io/ | Copark86 | Copark86

Education

Commonwealth Scientific and Industrial Research Organisation (CSIRO) Queensland University of Technology (QUT)

Brisbane, Queensland, Australia

Nov 2019(expected)

PhD. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

· Joint PhD program.

Sungkyunkwan University (SKKU)

Suwon, Korea

M.S. IN ELECTRICAL AND COMPUTER ENGINEERING

Feb 2012 Seoul, Korea

Seoul National University of Science and Technology (SNUT)

B.S. IN ELECTRONIC AND INFORMATION ENGINEERING

Feb 2010

Graduate Courses

Pattern Recognition, Robot Vision, Optimization Methods, Computer Vision, Computer Vision Theory, Genetic Algorithms, Advanced Probability and Random Processes, Microprocessor Applications, Advanced Network Design, Lower Power VLSI Design, Analog/Mixed-Signal Design, Digital Integrated Circuits

Research Experience _____

Data61, CSIRO Brisbane, Queensland, Australia

PhD STUDENT

Nov. 2016 - Exp. Apr. Present

- Research of Map-centric Continuous-Time SLAM (Simultaneous Localization and Mapping)
- · Research topics: Visual-Inertial-LiDAR SLAM, Probabilistic Sensor Fusion, Robust Optimization, Life-long mapping

eZRobotics Suwon, Korea

RESEARCH ENGINEER. (*A SUBSTITUTE FOR MANDATORY MILITARY SERVICE.)

Sep. 2012 - Jan. 2016

- · Design, simulation, implementation, and validation of vision-based industrial manipulator kinematics calibration and 3D/2D visionbased robot guidance algorithm.
- Developed a manipulator-based high-precision 3D measurement device with large working volume.

Intelligent Systems Research Institute

SKKU, Suwon, Korea

RESEARCH ASSISTANT

Jan. 2012 - Aug. 2013

- · Collaborated in a team to develop a robust 3D object recognition and pose estimation based on double layered particle filtering.
- Implementation of orientation SLAM and simple mono SLAM, intensively reviewed open source materials on filtering-based/graphbased SLAM, and structure from motion.

VLSI Algorithmic Design Automation Lab

SKKU, Suwon, Korea

RESEARCH ASSISTANT

May. 2010 - Dec. 2011

- Designed a fast stereo matching algorithm with wide-dynamic search range, implemented FPGA version of depth map generator.
- Research and development into improvement of 3D video quality of stereoscopic camera by real-time depth map. • Research and development of high-speed structured light 3D scanner on FPGA.

Institute for Biomedical Electronics

SNUT, Seoul, Korea

RESEARCH ASSISTANT

May. 2006 - Dec. 2009

- Research and implementation of a portable bio-signal processing module.
- Designed analogue filter circuits for estimating ECG and PPG, an analogue signal stabilizer circuit for stable measurement of biosignals, implemented analogue and digital mixed signal PCB with an 8-bit microprocessor
- Implemented digital signal processing algorithms for bio-signals.

Selected Publication __

Conferences

- · Chanoh Park, Peyman Moghadam, Soohwan Kim, Alberto Elfes, Clinton Fookes, Sridha Sridharan, "Elastic Lidar Fusion: Dense Map-CENTRIC CONTINUOUS-TIME SLAM", ICRA 2018.
- · CHANOH PARK, SOOHWAN KIM, PEYMAN MOGHADAM, CLINTON FOOKES, SRIDHA SRIDHARAN, "PROBABILISTIC SURFEL FUSION FOR DENSE LIDAR MAP-PING", ICCV WORKSHOP 2017.

Awards & Competitions _____

2011	2nd place , 7th SoC design contest, Project Title: "Visual Fatigue Reduction HW for User Comfort", Ministry of Trade, Industry and Energy & Seoul National University (SNU)	Korea
	2nd place , Core-A processor application design contest 2011, Project Title: "A bio-medical	
2011	instrument using Core-A", Korean Intellectual Property Office & Korea Advanced Institute of Science and Technology (KAIST)	Korea
2010	5th place , Core-A processor application design contest 2010, Korean Intellectual Property Office & Korea Advanced Institute of Science and Technology (KAIST)	Korea
2008	Appreciation Award, International Capstone Design Fair, Project Title: uDoctor-Health Care System.	Korea

Achievements _____

Top-up Scholarship	Commonwealth Scientific and Industrial Research Organisation (CSIRO) (AUD \$10k p.a.)			
Scholarship	Commonwealth Scientific and Industrial Research Organisation (CSIRO) - Queensland University of Technology (QUT) Scholarship (AUD \$26k p.a.)	2018-2019		
Fellowship	Brain Korea 21 Fellowship	2010-2011		
Scholarship	IC Design Education Center (IDEC), Korea Advanced Institute of Science and Technology (KAIST)	2011		
Scholarship	Tuition fee waiver scholarship (USD \$15k), Seoul National University of Science and Technology (SNUT)	2005-2009		

Skills_____

Programming	Adept in C	/C++. I	Matlab. O	penGL. (DpenCV.	Verilog.	git
	/ lacptill c	/ , ,	·iattab, o	periot,	pener,	vernes,	5,0

• Prior experience with PCL, ROS, Cuda, Shader

Embedded System/FPGA • Prior experience with ZYNQ, DSP, Vivado, ISE, RTOS

• Adept in microprocessor architecture and programming

Other Skills • Prior experience with SolidWorks, PowerMill, Orcad