

Kutluhan Buyukburc

Singapore
kbuyukburc@gmail.com

Skills and Programming Languages

Advanced	C/C+ Python Embedded Systems Embedded Linux PCB Design OpenCV Org. Computer Vision Certificates of Excellence <ul style="list-style-type: none">- DEEP LEARNING WITH PYTORCH, 98/100- COMPUTER VISION II: APPLICATIONS, 97/100- COMPUTER VISION I, 97/100
Intermediate	SQL Shell Script Android Studio Google Cloud AWS <ul style="list-style-type: none">- AWS Lambda Foundations Certificate
Basic	HTML & CCS Java Script Solid Works Adobe Photoshop

Work Experience

Firmware Lead	2018 - 2020
Lemnis Technologies, Singapore	
<ul style="list-style-type: none">- Headed the firmware team and led the development of firmware for VR headsets, piezo and electric motors actuation controllers, eye tracking systems and liquid lenses- Designed multilayer and EM protected PCB schematics- USB 2.0-3.1 electronic and firmware developed.- Researched data and co-wrote papers and patents.- Received Innovation Award for the praised Verifocal VR Kit.- Participated in SIGGRAPH 2019 and 2020	
Electronic Card Designer	2017
Gymsoft, Izmir, Turkey	
<ul style="list-style-type: none">- Developed code to control turnstile in gyms using Python and Raspberry Pi GPIO- Programme is implemented in gyms in Turkey and exported to some African and European countries	
Intern	2016
Schneider Electric, Izmir, Turkey	
<ul style="list-style-type: none">- Built circuit breakers from scratch for iron-steel factories- Learnt to read and write industrial schematics and the testing of industrial products	

Software Developer

2016

Gymsoft, Izmir, Turkey

- Developed Linux programme to control turnstiles on the Raspberry Pi
- More than 50 sport centres in Turkey benefitted from this software

Intern (Software Developer/Electronic Card Designing)

2013 - 2015

Mekatel Electronic, Izmir, Turkey

- Developed Windows programme to control water tank levels on the internet
- Programme is used in villages in Izmir
- Designed electronic cards to control static of cards in petrol stations

Education

Bachelor's Degree in Electronics and Electrical Engineering

2013 - 2017

Manisa Celal Bayar University, Izmir, Turkey

Anatolian Technical High School Diploma in Industrial Automation Technologies / Mechatronics

2009 - 2013

Mazhar Zorlu Technical and Industry Vocational High School

Patents and Publications

Ravindranath, Pradeep Anand, Kutluhan Buyukburc, and Ali Hasnain. "Self-calibration of sensors using point cloud feature extraction." In *SPIE Future Sensing Technologies*, vol. 11525, p. 115250M. International Society for Optics and Photonics, 2020.

Hasnain, Ali, Pierre-Yves Laffont, Shukri Bin Abdul Jalil, Kutluhan Buyukburc, Pierre-Yves Guillemet, Samuel Wirajaya, Liqiang Khoo, Teng Deng, and Jean-Charles Bazin. "Piezo-actuated varifocal head-mounted displays for virtual and augmented reality." In *Advances in Display Technologies IX*, vol. 10942, p. 1094207. International Society for Optics and Photonics, 2019.