

SUYEON CHOI

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<https://choisuyeon.github.io>

RESEARCH INTERESTS

3D Displays, Light-fields, Computational Imaging, Metasurfaces and Blockchain

EDUCATION

Seoul National University

Mar 2013 – Feb 2019

Bachelor of Science in Electrical and Computer Engineering

GPA (Overall : **4.13**/4.30, Major : **4.21**/4.30)

2-year absence to fulfill military duty (Aug 2015 – May 2017)

Seoul Science High School

Mar 2010 – Feb 2012

The school For Gifted Students

HONORS AND AWARDS

Grand Prize in Blockchain Contest, *LINE X Korean Institute of Information Scientists and Engineers* 2018

\$3,000 as awards, participated with *Gitchain* project.

Finalist, Samsung Collegiate Programming Cup (SCPC) 2016

Bronze Medal in the University Students Mathematics Contest, *the Korean Mathematical Society* 2016

Silver Medal in the **International Physics Olympiad (IPhO)** 2012

Gold Medal in the Korean Mathematical Olympiad, *the Korean Mathematical Society* 2009

Gold Medal in the Korean Physics Olympiad, *the Korean Physical Society* 2008

SCHOLARSHIPS

Presidential Science Scholarship, *Korea Student Aid Foundation*

2013 – 2018

Full tuition and partial stipend (\$5,000 / year) for academic excellence.

Youth Scholarship, *Woongjin Foundation*

2012

RESEARCH EXPERIENCE

Optical Engineering and Quantum Electronics Laboratory, SNU

Research Assistant Intern (Advisor : Professor Byoung-ho Lee)

Jul 2018 – Present

★ Shape Scanning Display :

- Developed a prototype of Shape Scanning Display.
- Demonstrated prototypes for wearable devices at SF-Zone of **IMID 2018**

★ *pypupil* : Eye tracker helper module

- Developed Eye tracker module for pupil-labs products in Python and published it on Github
- *pypupil* includes essential functions such as calibration without World camera.

Creative Engineering Design Project (Advisor : Professor Byoung-ho Lee)

Sep 2017 – Dec 2017

- Studied the latest research trends of metasurfaces and simulated the results using COMSOL.

Virtual Machine & Optimization Lab, Seoul National University

Undergraduate Research Project (Advisor : Professor Soo-Mook Moon)

Jan 2018 – Jun 2018

- ★ Gitchain : P2P git using blockchain network.
 - Devised novel protocol and implemented a prototype.
 - Awarded Grand Prize, LINE X KIISE Blockchain Contest, \$3,000

WORK EXPERIENCE

Cyber Bureau, Korean National Police Agency

Mar 2016 – May 2017

Auxiliary Police specialized in computer

- Selected as the only one of the total auxiliary police officers.
- Managed database and server of national performance collection network.
- Increased the convenience of officers as developing the network.

Sway Mobile, Inc

Jan 2015 – Feb 2015

Software Internship

- Implemented In-App Purchase module for Android in Unity

Samsung SDS

Aug 2013 – Aug 2015

Samsung SDS sGen Club, Software Internship Program

- ★ White Cane
- ★ E1 News

EXTRA CURRICULAR ACTIVITIES

Qualcomm IT Tour, Qualcomm, San Diego

Aug 2017

Participant

- selected as a participant of Qualcomm IT Tour to visit Qualcomm headquarters in San Diego

Security Partol Service, Seoul Eunpyeong Police Station

Sep 2015 – Mar 2016

Auxillary Police

- A part of military service

Seoul National University Children's Hospital, SNUH

Jul 2013 – Jul 2015

Math Teacher

- Taught math to patients of childhood cancer.

Freshman Mentor, Dept. of ECE, SNU

2014

- Helped 10 freshmen adjust to university life.

TEACHING

Tutor

Digital Systems Design and Experiments, Dept. of ECE, Seoul National University

Autumn 2018

Basic Physics, Dept. of Physics, SNU

Autumn 2014, Spring 2015, Spring 2018

Introduction to Electromagnetism, Dept. of ECE, SNU

Autumn 2017

Digital Logic Design and Lab, Dept. of ECE, SNU

Autumn 2014

Undergraduate Teaching Assistant

Introduction to Circuit Theory and Laboratory, Dept. of ECE, SNU

Spring 2015

TECHNICAL STRENGTHS

Computer Languages	Python, Verilog, C++, Java, Javascript
Protocols & APIs	jQuery, JSON
Databases	MySQL
Tools	L ^A T _E X, MATLAB, LabView, Zemax, Vim, Xilinx Vivado