

# Antyanta Bangunharcana

**Email:** antabangun@kaist.ac.kr

**Phone:** (8210) 4276-3878

**Research interests** Autonomous driving, Computer vision, Deep learning

**Education** **KAIST** Daejeon, South Korea  
PhD in Mechanical Engineering August 2019 – Present  
Mentors: Professors Soohyun Kim, Kyungsoo Kim. *GPA: 3.66*

**KAIST** Daejeon, South Korea  
MSc in Mechanical Engineering February 2017 – August 2019  
Mentors: Professors Soohyun Kim, Kyungsoo Kim. *GPA: 3.66*

**KAIST** Daejeon, South Korea  
BSc in Mechanical Engineering February 2013 – February 2017  
Mentors: Professor Sukyung Park. *GPA: 3.48*

**Publications** **Correlate-and-Excite: Real-Time Stereo Matching via Guided Cost Volume Excitation**  
**Antyanta Bangunharcana**, Jae Won Cho, Seokju Lee, In So Kweon, Kyung-Soo Kim, Soohyun Kim.  
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2021.*

**Retaining Image Feature Matching Performance Under Low Light Conditions**  
Pranjay Shyam, **Antyanta Bangunharcana**, Kyung-Soo Kim.  
*International Conference on Control, Automation and Systems (ICCAS), 2020.*

**Research experience** **Development of Camera Based Terrain Mapping Software for Lunar Rover**  
Mentors: Professor Kyungsoo Kim (KAIST) June 2019 – Present  
In collaboration with Korea Institute of Civil Engineering and Building Technology

**Development of Fillet Weld Gap State and Operation Information Recognition Technology Using Machine Learning Technique**  
Mentors: Professor Kyungsoo Kim (KAIST) March 2019 – June 2020  
In collaboration with Hyundai Heavy Industry

## **Autonomous Vehicle Competition, Hyundai Motors**

Mentors: Professor Kyungsoo Kim (KAIST)

September 2020 – Present

### Skills

#### **Programming**

Proficient in: Python, ROS.

Familiar with: MATLAB, C++.

#### **Languages**

Bahasa Indonesia (fluent), English (advanced)