

## Education

- **University of Minnesota**, Minneapolis, MN
  - Ph.D. Student in Computer Science and Engineering, Sept 2016 - present  
Advisor: Volkan Isler
- **Sabanci University**, Istanbul, Turkey
  - B.S. in Mechatronics Engineering, Sept 2012 - June 2016
  - Graduation Project: Intelligent Robots: Manipulation Planning

## Research Experience

- **Samsung AI Center**, New York City, NY
  - Research Intern, Jan 2019 - Aug 2019
  - Projects: Single and multi-view 3D reconstruction, learning object representations, object part decomposition from images, velocity controller for visual servoing of a manipulator robot
- **Shunde International Joint Research Institute (SYSU-CMU)**, Guangdong, China
  - Research Intern, June 2015 - Sept 2015
  - Project: Online parameter identification and state of charge estimation using AUKF for aging batteries
- **Technical University of Munich**, Munich, Germany
  - Research Intern, July 2014 - Sept 2014
  - Project: Traffic signalization and control

## Publications

1. S. Engin, E. Mitchell, D. Lee, V. Isler, D. D. Lee, Higher Order Function Networks for View Planning and Multi-View Reconstruction (in review), 2019.
2. E. Mitchell, S. Engin, V. Isler, D. D. Lee, Higher-Order Function Networks for Learning Composable 3D Object Representations (in review), 2019.
3. S. Engin, V. Isler, Asynchronous Network Formation in Unknown and Unbounded Environments, *International Conference on Robotics and Automation (ICRA)*, 2019.
4. S. Engin, V. Isler, Minimizing Movement to Establish the Connectivity of Randomly Deployed Robots, *International Conference on Automated Planning and Scheduling (ICAPS)*, 2018.

5. H. Bayram, N. Stefas, S. Engin, V. Isler, Tracking Wildlife with Multiple UAVs: System Design, Safety and Field Experiments, *IEEE International Symposium on Multi-Robot and Multi-Agent Systems (MRS)*, 2017.

## Honors

- Cedar Creek Ecosystem Science Reserve Fellowship (2018)
- UMN Graduate School Fellowship (2017)
- Sabancı University Scholarship (2012-16)

## Professional Services

Reviewer for IROS (2017-19), ICRA (2018), NeurIPS (2019)

## Technical Skills

Python, C++, PyTorch, Matlab/Simulink

## Coursework

- |  |                                      |
|--|--------------------------------------|
| • Advanced Algorithms & Data Structures    | • Sensing and Estimation in Robotics |
| • Matrix Theory                            | • Computational Geometry             |
| • Machine Learning                         | • Optimal Filtering & Estimation     |
| • Multiview 3D Geometry in Computer Vision | • Linear Systems Optimal Control     |
| • Autonomous Mobile Robotics               | • Artificial Intelligence            |

## Teaching Experience

CSCI 1133 - Introduction to Computing and Programming Concepts (Spring 2017, Fall 2017)