

# Bereket Faltamo

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## EDUCATION

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### Northeastern University

*Master of Science in Computer Science*

- GPA: 4.0/4.0

Boston, MA

Sep 2022 – Dec 2024(Expected)

### Korea Advanced Institute of Science and Technology (KAIST)

*Bachelor of Science in Mechanical/Electrical Engineering(Double Major)*

Daejeon, Korea

Feb 2017 – Dec 2021

**Relevant Coursework:** Algorithms, Object-Oriented Design(Java), Operating Systems(C), Programming Structures, Data Structures, Robotics Engineering, Machine Learning, Mobile Robotics, Computer Vision

## EXPERIENCE

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### Summer Research Fellow

*Massachusetts Institute of Technology (MIT)*

July 2023 – Present

Boston, MA

- Working on projects in the areas of geometry processing, computer vision/graphics, etc.

### Graduate Teaching Assistant | CS 5002: Discrete and Data Structures

*Northeastern University Khoury College of Computer Sciences*

Dec 2022 – Present

Boston, MA

- Held office hours for 80+ students to review course content and problem sets
- Graded problem sets & exams and provided the course instructor feedback on students' performance

### Robotics Software Engineer

*DOGU Co., Ltd*

Apr 2022 – Aug 2022

Seoul, Korea

- Designed and implemented an autonomous docking algorithm for automatic charging of service robots using ROS move\_base stack and a V-shaped station

### Software Engineering Intern

*AKA AI*

July 2021 – Aug 2021

Seoul, Korea

- Integrated a SLAM algorithm to a UGV to autonomously navigate in farmland using RGB camera and 3D LiDAR
- Designed and trained real-time classifier for ripeness of tree fruits using YOLO and Darknet frameworks

## PROJECTS

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### Tux Shell | C, Perl, Unix, Git

Feb 2023 – Mar 2023

- Designed and implemented Tux shell, a simplistic command-line interface that parses and executes user input commands.
- Utilized system calls to execute shell commands, providing users with access to basic file management and process control functionality
- Thoroughly tested the implementation using Perl script

### Autonomous Mobile Robot | C++, OpenCV, ROS, V-REP

Mar 2021 – June 2021

- Developed a perception pipeline for a mobile robot, incorporating an RGB-D camera and LiDAR sensor to enable mapping and object recognition.
- Co-ordinated a team of 6 students to design and build an autonomous mobile robotic system

## TECHNICAL SKILLS

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**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, MATLAB

**Frameworks:** Bootstrap, jQuery, React, Node.js, MongoDB, JUnit, ROS

**Developer Tools:** Git, VS Code, PyCharm, IntelliJ

**Libraries:** OpenCV, PyTorch, NumPy, Matplotlib