Murat Bolu

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Summary

Senior computer engineering student at Middle East Technical University. Interested in programming languages, compilers, and formal verification. Currently conducting research on multi-agent pathfinding with Dr. Faruk Polat.

Education

2020 — 2025 **Bachelor of Science in Computer Engineering**,
Middle East Technical University, Ankara, Turkey
GPA: 3.63
Courses of Interest: CENG444 (*Language Processors*), CENG488 (*Guided Research*)
High honor student for the 2020–2021 fall, 2022–2023 spring, 2023–2024 fall semesters; honor student for the 2021–2022 spring, 2022–2023 fall semesters.

Experience

March 2023 — Present **Research Assistant**, *Middle East Technical University*, Ankara, Turkey
Currently a research assistant working with Dr. Faruk Polat on multi-agent pathfinding. Developed four new heuristics for task assignment in multi-agent pathfinding that run up to three times faster with similar costs.

October 2022 — June 2023 **Teaching Assistant**, *Middle East Technical University*, Ankara, Turkey
- Was a teaching assistant for CENG242 (*Programming Language Concepts*) in Spring 2023. Assisted in the preparation of two Haskell programming exams.
- Was a teaching assistant for CENG111 (*Introduction to Computer Engineering Concepts*), the introductory computer engineering course, in Fall 2022. Assisted +50 students during their quizzes and lab hours. Held office hours for students to answer their questions.

August 2022 — September 2022 **Software Engineering Intern**, *Vitruvian Robotics*, Ankara, Turkey
- Developed three services and a topic using Robot Operating System (ROS).
- Created a ROS publisher publishing a twist message and a Gazebo plugin containing a wheelbarrow model.
- Created a MoveIt simulation in which the robot arm would pick up a cube and put it inside a drawer.

Languages

English (Fluent), Turkish (Native)

Skills

Programming Languages: C++, Haskell, Python
Version Control: Git