



TED UNIVERSITY

CMPE 491

Senior Project I

PROJECT NAME

AcuSense

Project Proposal

Submission Date: 13.10.2024

Team Members:

Doğa Paksoy 10078725538

Rana Çetinkaya 31726748334

Berrin Uzun 15982088236

Name of the project : AcuSense

The URL of the project web page: <http://51.20.5.155/>

Names of the team members:

1. Doğa Paksoy
2. Rana Çetinkaya
3. Berrin Uzun

Names of the supervisor and jury members

Supervisor : Deniz Cantürk

Jury Members:

1. Ayşe Yasemin Seydim
- 2.

Description of the project:

Our project, "AcuSense", uses sensor-derived acoustic data analysis to improve operational safety and efficiency. AcuSense, which was developed especially for FNSS tanks, uses cutting-edge sound processing algorithms to continuously monitor and analyze important auditory information. The device ensures improved situational awareness by spotting abnormalities or irregular patterns in sound, which can be used to identify potential threats early on. By adding an extra degree of safety and operational dependability and integrating smoothly with current tank systems, AcuSense reduces risks and improves overall vehicle performance in the field.