

ECE 4380

# AI Project Proposal

Ring Camera with AI

Nate Owen, Marissa Cash, Sammie Levine, Grayson  
Turner



# Overview

- Identify specific humans on a Ring camera using facial recognition with Google Coral



# Deliverables

- Use our model to accurately identify 3 unique faces with an above 80 success rate in normal lighting conditions
- Maintain an average latency of 500ms from image capture to recognition
- Maintain a false positive rate of less than 2%
- [https://github.com/Mircea-s-classes/ai-hardware-project-proposal-team1\\_ai/blob/main/docs/Project\\_Proposal.md](https://github.com/Mircea-s-classes/ai-hardware-project-proposal-team1_ai/blob/main/docs/Project_Proposal.md)

# Team Roles

Name	Role	Responsibilities
Grayson Turner	Team Lead	Coordination, documentation
Nate Owen	Hardware	Setup, integration
Sammie Levine	Software	Model training, inference
Marissa Cash	Evaluation	Testing, benchmarking