

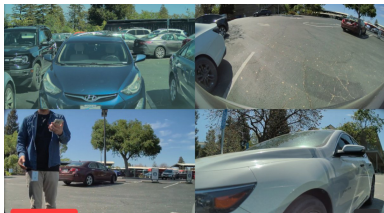
# Master Project, Fall 2026

## Intelligent Surveillance Wake Up with Low Resolution Data

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# Application



'Always on' surveillance that looks for specific features is very energy costly at high frame rates and resolution. Thus, it is worthwhile to try to limit spatio-temporal resolution in surveillance mode, while still being able to detect the relevant features.

# Challenges

- Always on power consumption
- Reliability vs Spatio-Temporal resolution
- HW friendly ANN/CNN algorithm

# Candidate Profile

(ideally ...)

- Experience ANN/CNN Simulation
- Knowledgeable in Custom HW (FPGA/ASIC)