321 Term Project: 2.4 GHz Jammer

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CSE 321: Realtime Embedded Systems

# Problem: Remote Trigger on 2.4 GHz

A Problem modern military units face is the Improvised Explosive Devices (IED’s). In Iraq and Afghanistan more services members were killed from IED’s than any other cause. Often these explosives were triggered remotely with anything from a tv remote, car key, to wired panels, and cell phones. To combat this often units would carry jammers with varying success. The best solution was found to be armoring vehicles against this threat. I aim to make a jammer operating on the frequencies commonly used (2.4 GHz) that is smaller than what was in common use during these wars. This has further used within Law Enforcement to Counter Terrorism, especially if these devices can be made smaller.

# A diagram of a company Description automatically generatedUML Use Case Diagram

# Classes, Responsibilities, and Collaboration Card

# A computer screen shot of a circuit board Description automatically generatedA screenshot of a computer Description automatically generatedFlow Chart and Architectural Block Diagram

# Component List

|  |  |
| --- | --- |
| 2.4 GHz Antenna | Ready for Order |
| Arduino Uno | On hand |
| Lights | Ready for order |
| Wires | Ready for order |
| Mini Bread Board | Ready for order |
| Button | Ready for Order |
| Resistors | Ready for order |