Preliminary Concept

NIRDAT – Near Infrared Detector and Tracker

Purpose of Design

For us:

- **Explore high performance embedded system design.**

- **Expand territory into industry applications such as machine vision and image processing.**

- **Challenging, but very possible.**

- **Interface outside visible spectrum.**

- **CRITICAL OBJECTIVE:**
  - **Project goals and practice must be industry focused.**
  - **Skills and tools must be in demand.**

Purpose of Design

For the consumer:

- **The Near IR Detection and Tracking (NIRDAT) platform is designed with the target audience of Law Enforcement Police Interceptors, Homeland security, and surveillance.**

- **This platform will be a high performance, low power system capable of tracking a particular target or targets. As an added feature, string data on the target will also be pulled (i.e. license plates).**

Top Level Block Diagram