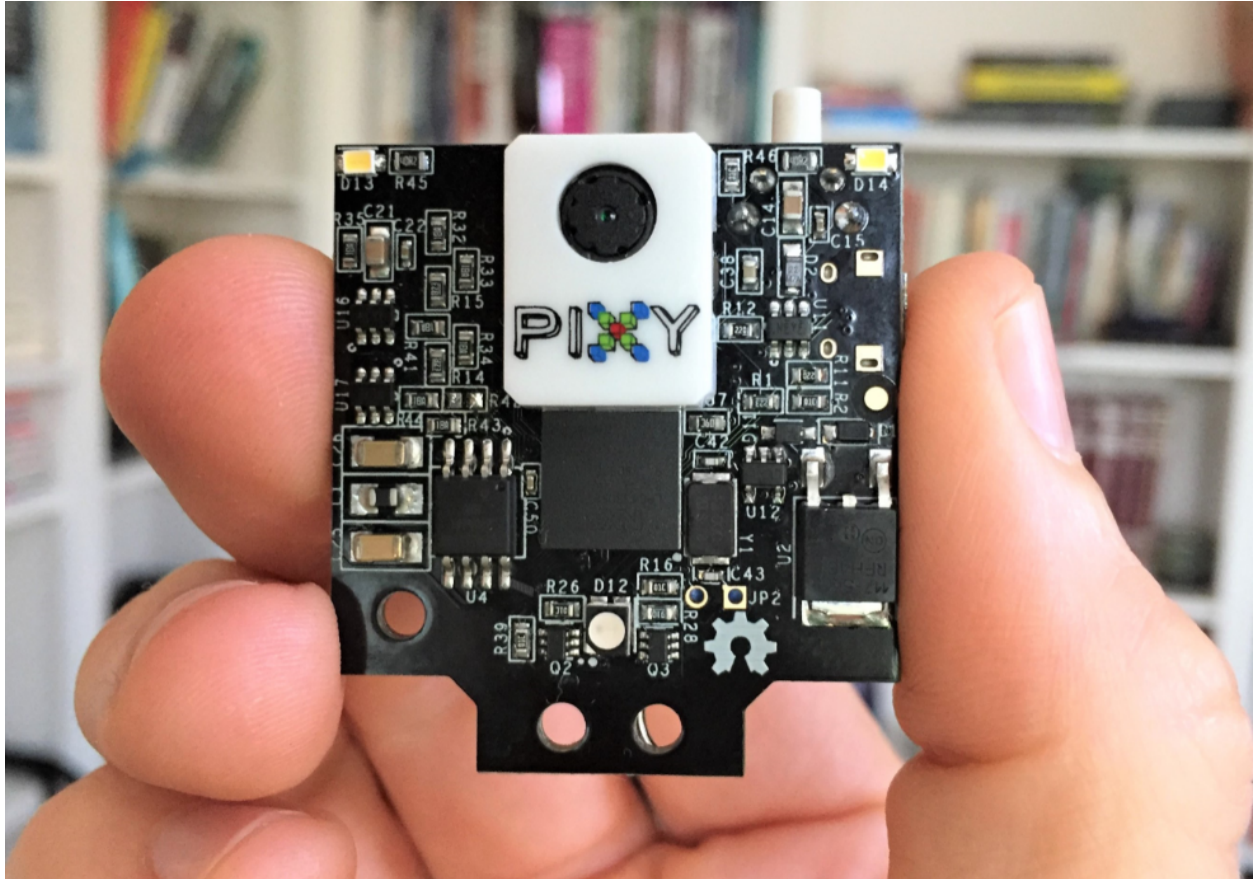# Pixy2 from Charmed Labs

- Detects objects that you teach it
- Easy to use, press the button to teach Pixy an object
- **New line following mode** for detecting and tracking lines
- Line following mode can detect and read road signs as well
- Outputs what it detects **60 times per second (60 frames-per-second)**
- **Integrated light source**
- Connects to Arduino with included cable. Also works with Raspberry Pi, BeagleBone and similar controllers
- Communicates via one of several interfaces: SPI, I^{2}C, UART, USB or analog/digital output
- Configuration utility runs on Windows, MacOS and Linux
- All software/firmware is open-source GNU-licensed
- Interface libraries that support C/C++ and Python are provided
- All hardware documentation including schematics, bill of materials, PCB layout, etc. are provided
- Processor: NXP LPC4330, 204 MHz, dual core
- Image sensor: Aptina MT9M114, 1296x976 resolution with integrated image flow processor
- Field of view: 60 degrees horizontal, 40 degrees vertical
- Dimensions:1.5" x 1.65" x 0.6"
- Arduino cable, USB cable and mounting brackets included