2 Vision Processor

1 Threads

3 Robot

4 Vision Subsystem

5 Commands

Threads - Needs Vision Processor (½)
- Capture Image - creates Mat
- Run Vision Processor - passes Mat
- Set Global array

Vision Processor - Needs Mat
- Reads Image - from Mat
- Runs calculations
- Sets global Array

Vision Subsystem
- find Gear() - reads global Array and drives
- find Boiler() - reads global Array and drives
- switch Camera() - kills and switches Threads