AFROBot

ucsb capstone 2012-2013

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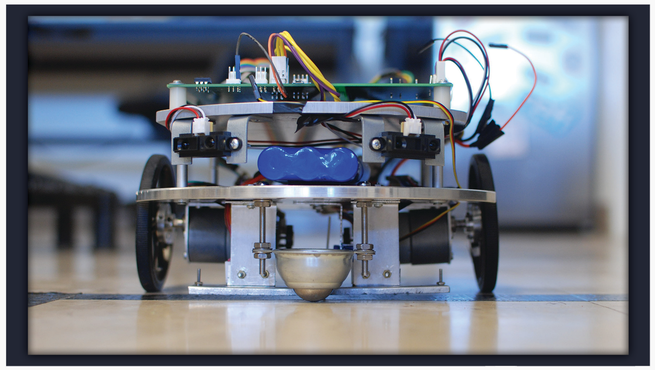
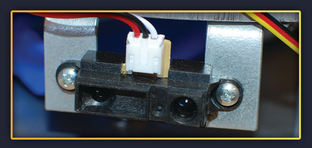
project overview

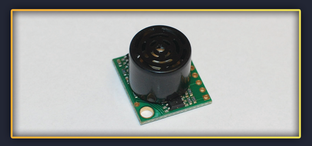
AFRObot is an autonomous following robot designed to trace existing lines. However, this build represents only one of many potential applications for this prototype design. Our selection of peripherals enables AFRObot to function as a versatile framework for future designs.



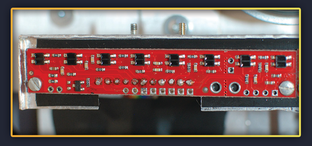
subsystems



- Infrared Sensors

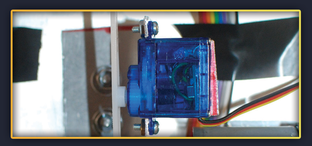


- Sonar

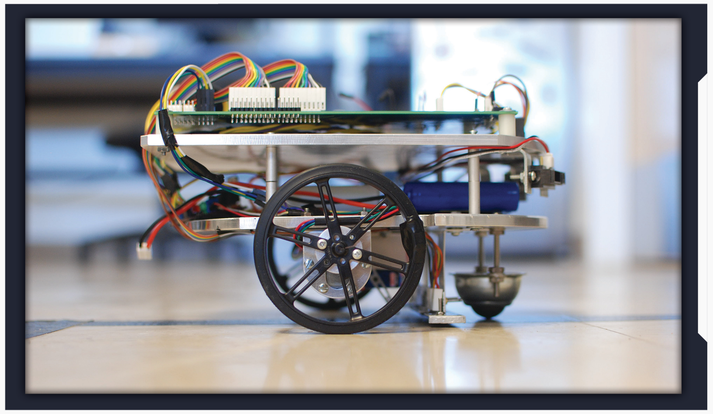


- Reflectance Arrays

- Motors & Encoders

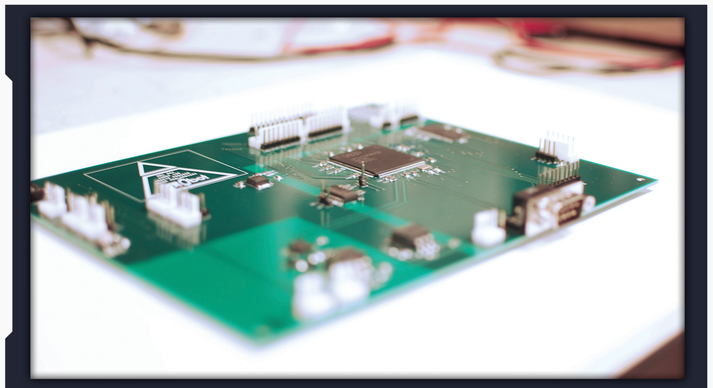


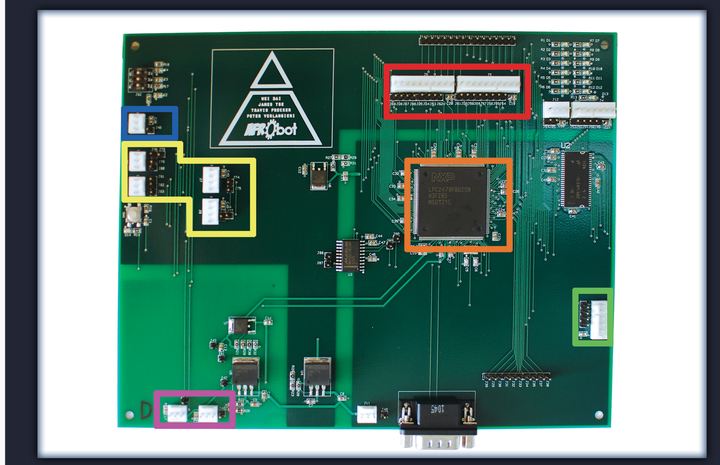
- Servo



processor

All subsystems are interfaced through an NXP LPC2478 ARM 7 Processor.



applications

- Warehouse navigation
- Maze solving
- Street line repainting
- Redrawing athletics fields
- Perimeter security