G.U.A.R.D

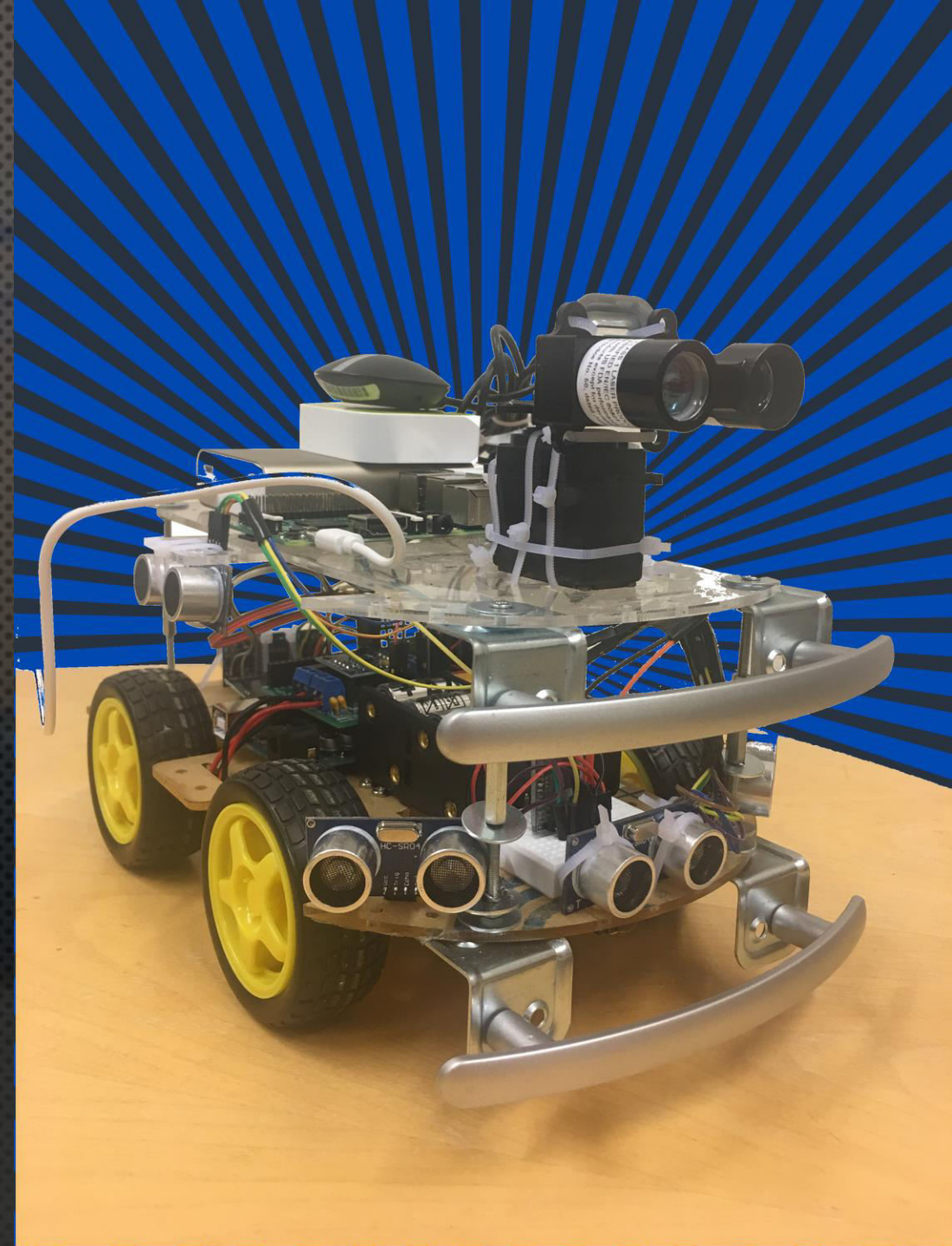## GOTHENBURG UNOFFICAL ASSISTIVE RESPONSE DEVICE

JUSTINAS STIRBYS   BOYAN DAI   JOACIM EBERLÉN   ERIK LAURIN   SHAUN MCMURRAY   GABRIEL BULAI

MAIN GOAL

- FOLLOWING A 'TRAVELER'
  - SURVEILLANCE

FEATURES

- MOBILE APPLICATION
  - MANUAL CONTROL
  - AUTONOMOUS
- CAMERA SUPPORT (VIDEO STREAM)
- COLLISION PREVENTION
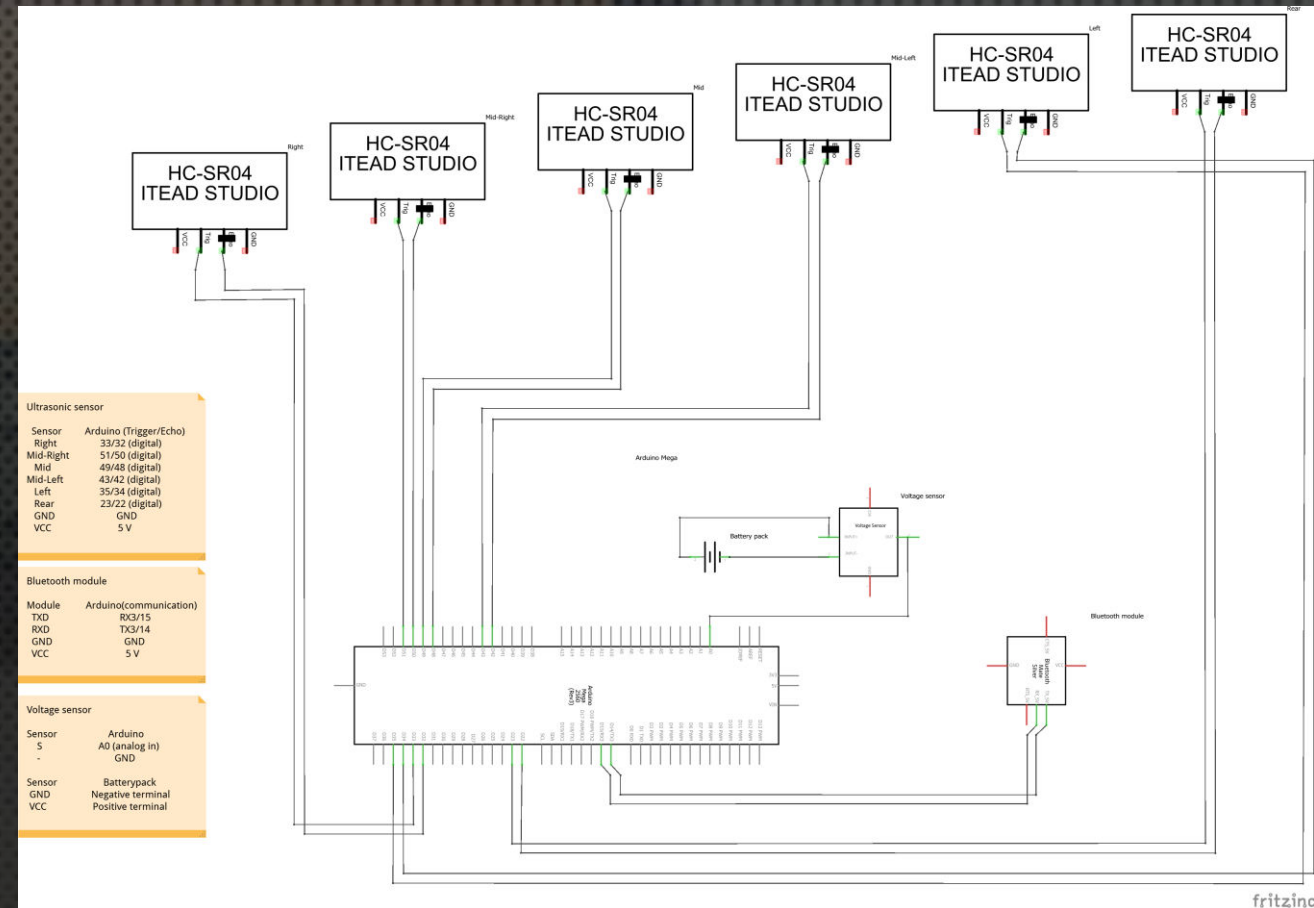- OBSTACLE AVOIDANCE

IMPLEMENTED

- ANALOG CONTROLLER

- PARKING SENSORS

- BATTERY INDICATOR (SMARTCAR'S)

- VIDEO STREAM

- COLLISION PREVENTION

REMAINS

- AUTONOMOUS DRIVING

  - GPSFOLLOWING

  - CAMERA FOLLOWING

- OBSTACLE AVOIDANCE

THE DEVELOPMENT PROCESS

- Sprint planning meeting

- Stand-ups

- Code review

  - Refactoring

- Pair programming

- Retrospectives

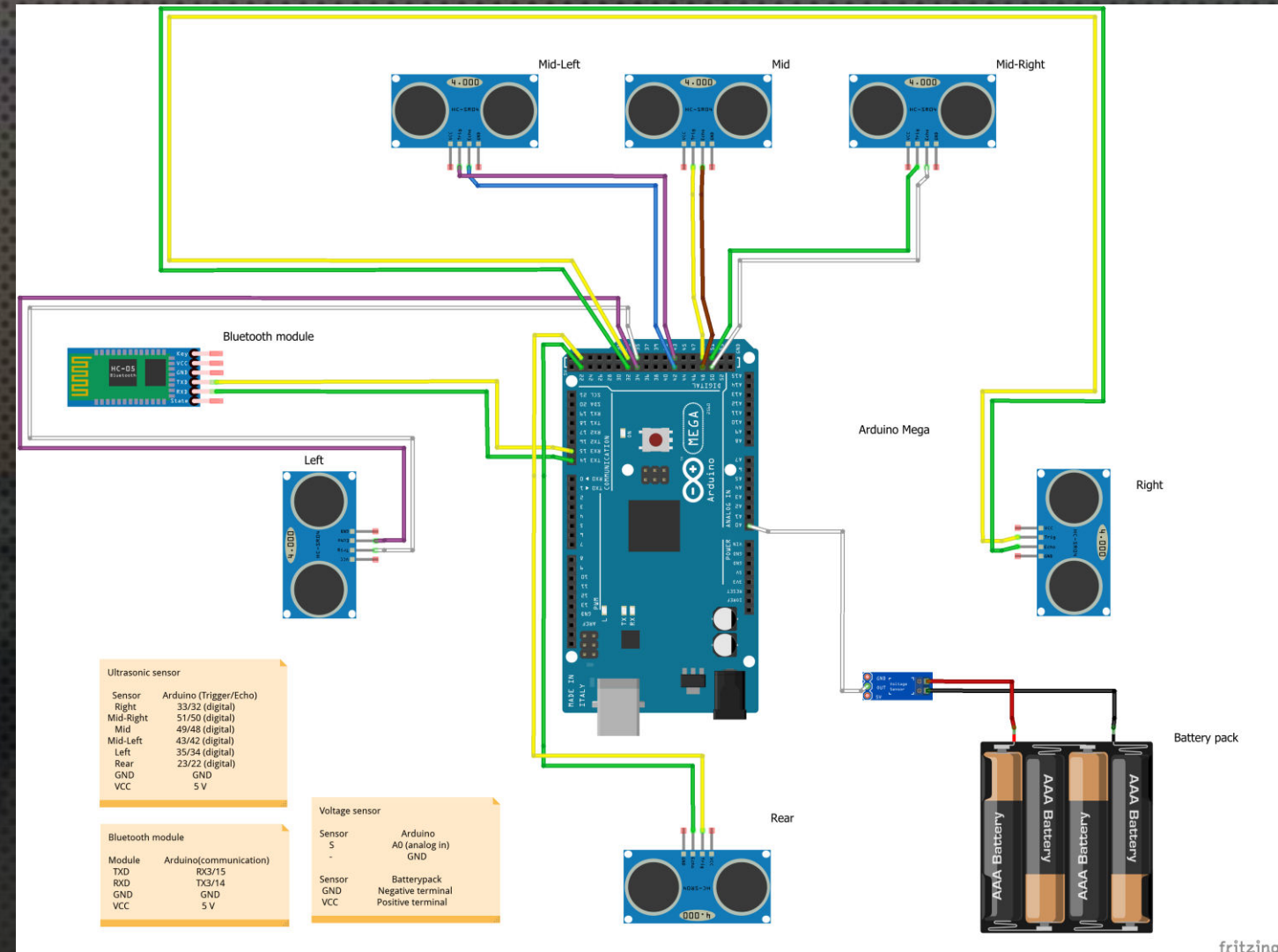# QUALITY ISSUES

CHALLENGE/ REQUIREMENT

- SourceMonitor
  - complexity and depth
- Visual Paradigm
  - reverse engineer – cohesion & coupling
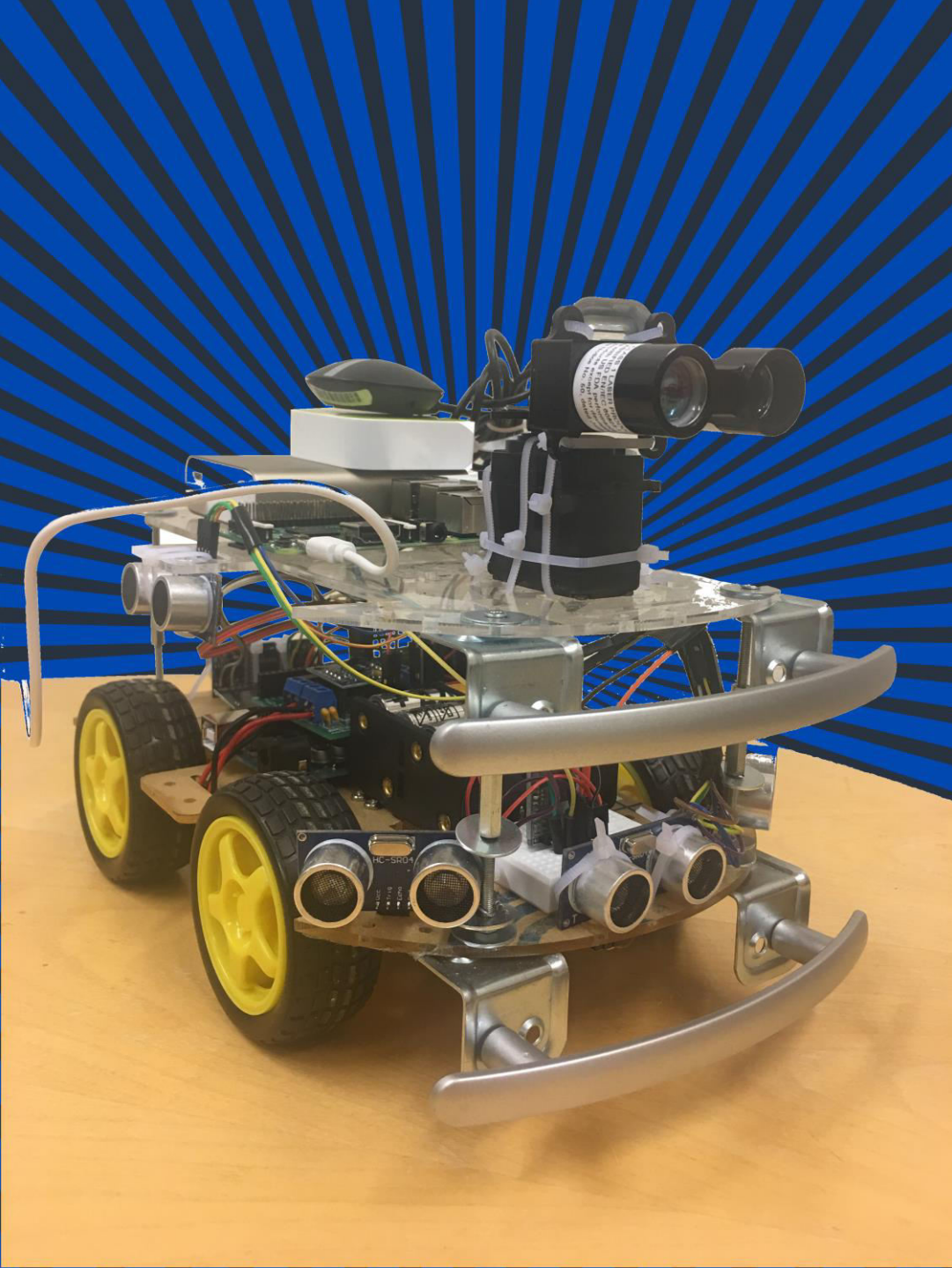- Mobile phone application crashes

FIX

- Refactoring
- Architectural patterns
- UI testing & root analysis

LESSONS

- Establish acceptance criteria

- Unified definition of done

- Hard to estimate time consumption

DEMO

- Analog controller

- Collision prevention

- Parking sensors

- Battery indicator

- Video stream