Team LEAD
USB Dashboard Display
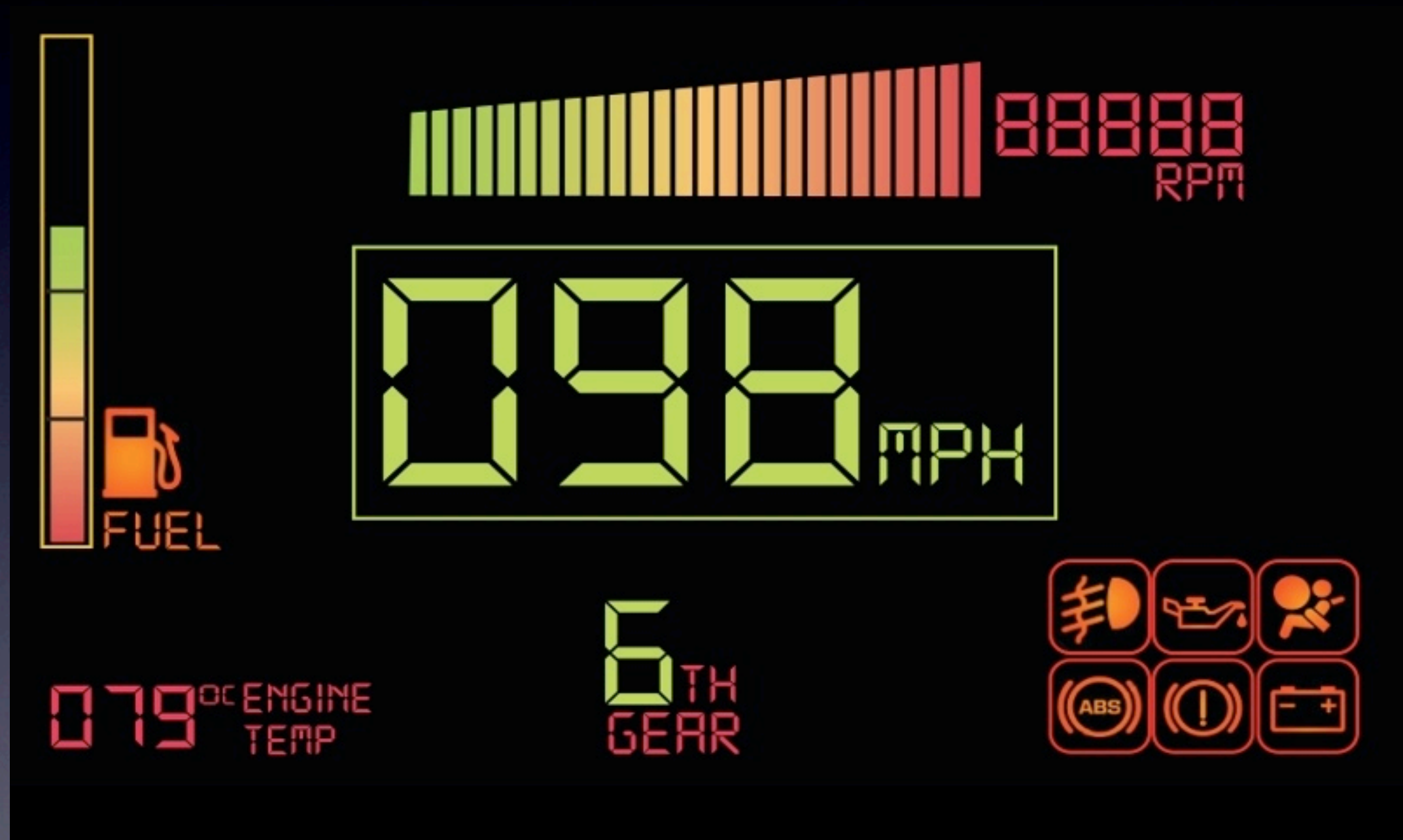
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Team LEAD

- Dashboard System Requirements

- Our Solution

- Components

- Plan

- Questions

Dashboard Display

- An important piece of the vehicle

- Should display critical information without distracting the driver

- Easy to configure

- Accurate
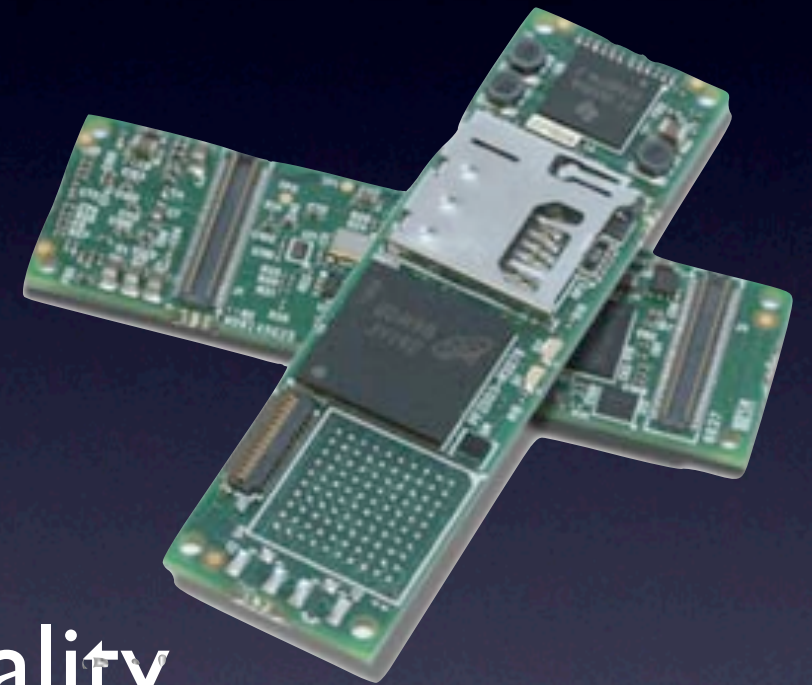
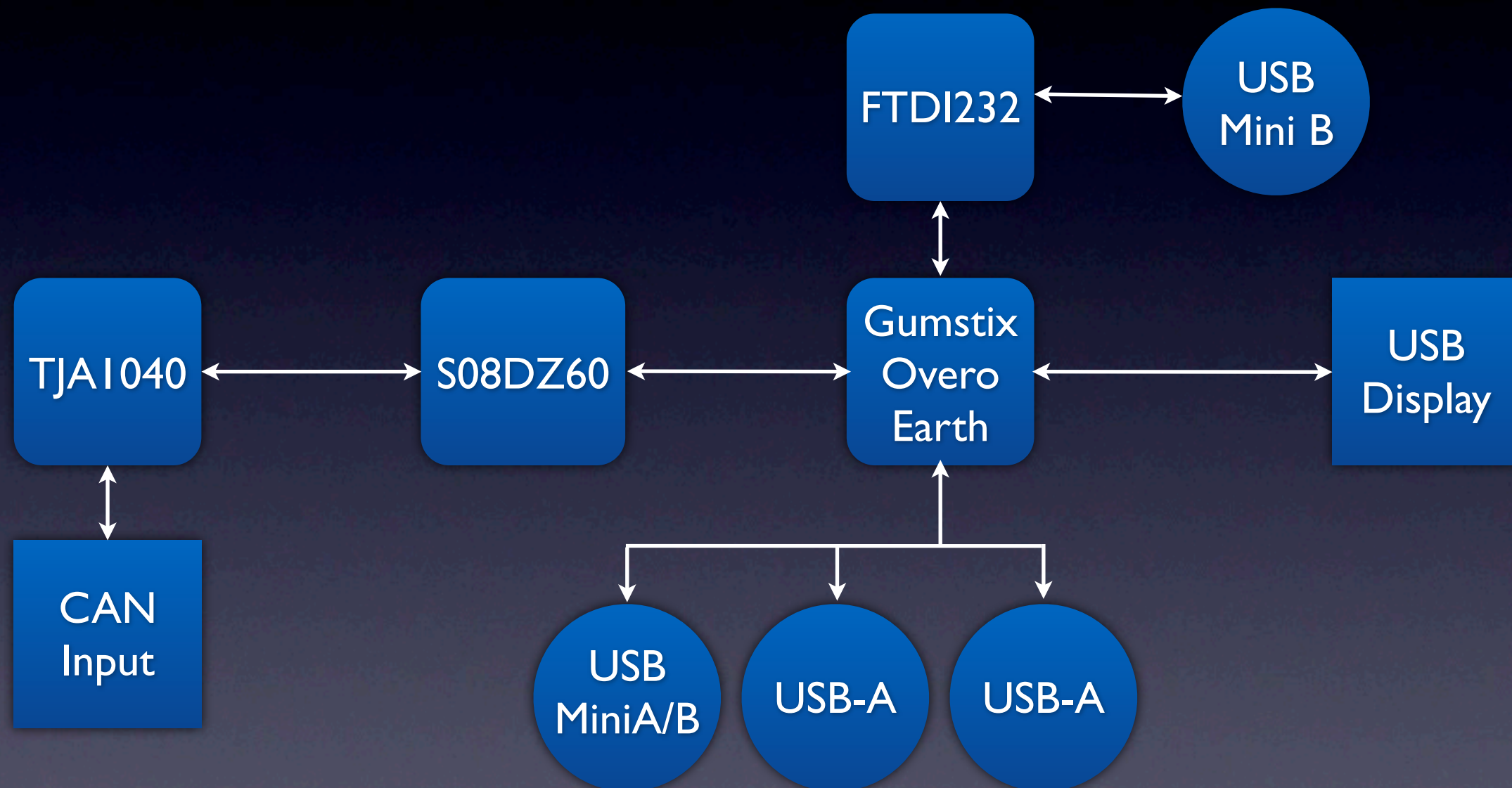# Dashboard Display

Our Solution

- Using a Computer-On-Module (COM) Board.

- CAN Controller + Transceiver

- Communication over SPI

- USB Host Functionality

Our Solution Hardware

- COM - Gumstix Overo Earth
  600MHz ARM Cortex A8
  Micro SD slot
  GNU/Linux Embedded OS
  USB Host/USB OTG functionality

- CAN Module Freescale HCS08DZ60

High Level Overview

Our Solution Software

- GNU/Linux Operating System

- DisplayLink

- Abstraction of Hardware

- Ease of Development Maintenance and Update

- GUI and processing programs written in C

Project Plan

- To Date:
Schematics Drawn
Gumstix ordered and received

- To Do:
Build Hardware
Test
Write Software
Test, Test and Test...

Project Plan

- Regular Meetings

- Subversion (SVN)

- Timesheets

Conclusion

- Good framework set out for development

- Will hopefully have something working by the end

- Lots of work to go

Questions?