Tango Mower
Tango – What is it?

https://www.youtube.com/watch?v=seM8LSuDFog
Scope – Design & Build Architecture

- Integrated design will not include any “off the shelf” hardware
- System running in Linux

Perception Board

- Software Component
- GPU Minimum CPU

Main Board

- Ethernet Switch
- Ethernet Port
- Shared Memory

Vehicle Board

- Software Component
- Ethernet Port

CPU Components

- Ethernet Port
- CPU-ARM Multi-Core high RAM

- Wheel Motors
- Steering
- Hall Effect
- Etc..
Deere Expectations

Project Deliverables:

- Schematics of PCB design(s).
- Physical prototype of designed board(s).
- System running in Linux with functioning networking.
- Design Specifications for PCB:
  - Temperature (-20 to 70°C)
  - Vibration (JDQ 201-D3, Lvl 4),
  - Electro Static Discharge (ESD)
    - Handling: JDQ 202E
    - Operational: 202F
- Cost & Application Packaging

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- Optional: Electro Magnetic Capability (EMC)
  - Conductive Emission: JDQ 202AA
  - Radiative Emission: JDQ 203C & 203C
Deere Expectations

Other

- Meeting weekly @ JDTIC in Research Park.
- Deere can provide prototype funding.
- Deere will require signing of an NDA.
- Deere will require ownership of the IP.