Project Proposal: Security of IoT technology in autopilot vehicle

Team number: 16

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Abstract
- The definition of the IoT.
- How the self-driving car connects to internet

Objectives
- Threats could have bad influence on autopilot connecting to internet
    1. Confidentiality, for example, No one else can get the info of owner's personal privacy
    2. Authentication, for example, need to verify the identity of trusted entity
    3. Integrity, for example, the information transmitted cannot be modified
    4. Availability

- Analysis of the threats above regrading to cryptography
- Improvements/solutions

Tasks
1. Potential threats related to confidentiality, authentication (ruifeng luo), integrity (wuang shen) and availability (Tiange Wang).
2. Cryptographic solutions realted to threats of confidentiality, authentication (ruifeng luo), integrity (wuang shen) and availability (Tiange Wang).
3. Limitations related to solutions introduced
4. Presesntation of our research
5. Finalize report

Timeframe

	Task	Timetable
Phase One	Task 1	Week 8
Phase Two	Task 2	Week 9
Phase Three	Task 3	Week 10
Phase four	Task 4	Week 11
Phase five	Task 5	Week 12