IEEE Systems Council
Intelligent Transportation Design Technical Committee

Stand-up Meeting – 11/05/15, 5p, Eastern

Agenda

I. Introductions
II. Intelligent Transportation Design Technical Committee
III. Define and update goals for the Intelligent Transportation Design Technical Committee

Introductions:

I. Attendees: LaMont McAliley, Roger Libra, Ophir Kendler
   a. Introductions were accomplished

Intelligent Transportation Design Technical Committee

Intelligent Transportation Design will capture the essence of machine-enabled human and cargo transportation through all modes of travel. Issues associated with the safe implementation of electromechanical systems supporting autonomous and semi-autonomous transport will be identified, predicted, and their mitigation strategies will be recommended. Particular attention will be paid to the power processes, internal and external electronics, and the material integrity of electromechanical systems.

Goals

Establish a framework that enables efficient characterization of advanced transportation capabilities (Unmanned Aircraft Systems (UAS), Ground Transportation Implementation Planning (GTIP), Electric Aircraft (EA), Space Access (SA), Rail, Sea, and Air). These 7 Use Cases represent TC goals.

- Unmanned Aircraft Systems
  - Current
  - Near Term (5 years)
  - Far Term (10 years)
  - Focus
  - Proposed Working Groups
  - Roadmap & Timeline

- Ground Transportation Implementation Planning
  - Current
  - Near Term (5 years)
  - Far Term (10 years)
  - Focus
  - Proposed Working Groups
  - Roadmap & Timeline

- Electric Aircraft

  - Current
  - Near Term (5 years)
  - Far Term (10 years)
  - Focus
  - Proposed Working Groups
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- Space Access
  - Current
  - Near Term (5 years)
  - Far Term (10 years)
  - Focus
  - Proposed Working Groups
  - Roadmap & Timeline

- Rail
  - Current
  - Near Term (5 years)
  - Far Term (10 years)
  - Focus
  - Proposed Working Groups
  - Roadmap & Timeline

- Sea
  - Current
  - Near Term (5 years)
  - Far Term (10 years)
  - Focus
  - Proposed Working Groups
  - Roadmap & Timeline
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- Air
  - Current
  - Near Term (5 years)
  - Far Term (10 years)
  - Focus
  - Proposed Working Groups
  - Roadmap & Timeline

Discussed the goals identified above and if it would the goals should be kept or modified. Based on the discussion the plan is to keep the goals and to begin reaching out to other societies such as the Intelligent Transportation Society and other organizations within the IEEE first. Then begin reaching out to other such as SAE afterwards.

Action Items:

1. Figure out what other organizations are currently involved in and see if there is any information that can be utilized.
2. Consider writing a 1 pager on all of the 7 Technical cases listed above and define the state of the art and the significance
3. What is going on in the 7 areas and what are the gaps? (Inform us to where we are) – Consider doing the same exercises that they did in Rome.
4. Reach out to the other societies within IEEE and other organizations afterwards (SAE, Standards, NIST, etc)
5. Will identify a plan to divide the 7 Technical Cases up amongst the group?
6. Began to set up goals, objectives and metrics for each of the 7 Technical Cases. (Do we have the right goals? How reasonable will the timelines be?)
7. Consider developing an Architecture block.

Next meeting tentatively scheduled for Nov.19 at 7:00 PM (EST)