Syllabus
September 30, 2015

Date	Speaker	Topic / Paper
September 1	rek	**Course Organization, Format and Expectations** **Vision of the Internet of Things** **Culler IoT Keynote Speech**
September 8	rek rek rek rek	**Primer on Protocol Stacks** **Primer on Network Performance Measures** **Primer on Wireless Networks** **Primer on Wireless Sensor Networks**
September 15	rek rek	**#1 Low Power Interoperability for the IPv6 Internet of Things,** Dunkels et al. **#2 The Internet of Things: A Survey,** Atzori et al.
September 22	Aniket Shah Renato Iida	**#3 Mapping and Localization with RFID Technology,** Philipose et al. **#4 WAVE: A Tutorial,** Uzcategui et al.
September 29	rek rek	**Primer on Routing** **#5 A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols,** Broch et al.
October 6	Alex Witt Le Wang	**#6 A Power Assignment Method for Multi-Sink WSN with Outage Probability Constraints,** Pellenz et al. **#7 Routing in Vehicular Ad Hoc Networks: A Survey,** Li and Wang
October 13	rek Renato Iida	Primer on Cellular including LTE and Mobility **#8 LTE and IEEE802.p for Vehicular Networking: a Performance Evaluation,** Mir and Filali
October 20		**No Class**
October 27	Aniket Shah rek rek	**#9 Performance Investigation and Optimization of IEEE802.15.4 for Industrial Wireless Sensor Networks,** Hameed et al. **#10 QoS Performance Analysis for Slotted CSMA/CA in IEEE802.15.4,** Lan et al. Culler Primer on 6LoWPAN
November 3	rek	**#11 Integration of Wireless Sensor Networks to the Internet of Things using a 6LoWPAN Gateway,** Schrickte et al.

	Alex Witt rek	#12 Reliable and Real-time Communication in Industrial Wireless Mesh Networks, Han et al. #13 Towards Efficient Mobile M2M Communications: Survey and Open Challenges, Pereira and Aguiar
November 10	rek Le Wang	#14 Integrating Wireless Sensor Networks with the Web, Colitti et al. #15 Improving Packet Delivery Performance of Publish/Subscribe Protocols in Wireless Sensor Networks, Davis et al.
November 17	rek rek	#16. The Emergence of a Network Primitive in Wireless Sensor Networks, Levis et al. #17. RPL under Mobility, Lee et al.
December 1	Renato Iida & Le Wang Aniket Shah & Alex Witt	#18 Lithe: Lightweight Secure CoAP for the Internet of Things, Raza et al. #19 Wireless Sensor Networks and the Internet of Things: Do We Need a Complete Integration?, Alcaraz et al.
December 8	6:00 – 9:00 p.m. FL135	Oral Final Exam
December 15	Project Presentations	