Northeastern University

EECE5155: Wireless Sensor Networks and the Internet of Things
Project Team and Research Topics

Project Team	Research Topic	Team Members	Comments/ Suggestions
Team – 1	The Role of IoT in the Built Environment.	1. Benjamin Gincley 2. Kevin Singa 3. Thai Trinh 4. Ziyu Bian	
Team – 2	The Internet of Underwater Things.	1. John Caldwell 2. Andrea Lacava 3. Andrea Monterubbiano 4. Irene Tallini	
Team – 3	Data Driven Health: The Future of IoT in the World of Biomedical Sciences.	1. Rahul Bathini 2. Jordan Leong 3. Steven Nguyen 4. Areeba Aziz Rajput	Focus on the role of data
Team – 4	The Internet of Robotics Things.	1. Matthew Heim 2. Liangshe Li 3. Xinchao Song 4. Davide Villa	
Team – 5	IoT in smart parks (Wildlife application using loraWAN).	1. Hariram Asokan 2. Harshita Lokesh 3. Nagulan Manivelan 4. Sai Geetha Seri	
Team – 6	The Role of IoT in Smart Traffic.	1. Ji Feng 2. Xu Liang 3. Xingya Wang 4. Mingzhe Zhang	
Team – 7	IoT and Vehicular Networks.	1. Jiacheng He 2. Valerie Charry 3. Richard Horton 4. John Leong	

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Team – 8	Internet of battlefield things - Fog computing.	1. Anna Devries 2. Pragadeesh Kumar 3. Gautham Ranganathan 4. Vikas Veerabathini	
Team – 9	Security and Data Privacy in the Internet of Things.	1. Boyuan Niu 2. Xiang Peng 3. Wentao Yu 4. Yuqing Zhang	
Team – 10	The role of Artificial Intelligence in the Internet of Things.	1. Ziyu Liu 2. Ge Yang 3. Yifei Yao 4. Yuheng Zhang	
Team – 11	The role of intelligent reflecting surfaces (IRS) on the internet of things: definition, applications, and perspective.	1. Hooman Barati Sedeh 2. Raana Sabri Khiavi	
Team – 12	Body Area Networks: Research and development of wearable wireless computing devices are important in the future of the medical field like health monitoring or physical therapy.	1.Rukmini Dasadhikari 2. Tzu-Chieh Hung 3. Ke Sun 4. Hsiu-Ting Yeh	Focus on body area networks and wearables
Team – 14	IoT in nano-(bio-)sensors.	1. Samar Elmaadawy 2. Jerry Gu 3. Srinath Iyer 4. Sharuk Sikkandar	Focus on the intra-body / nano-bio aspects
Team – 15		1. Evan Aguirre 2. Stephen Boyd 3. Basil Mir	**Select one of the bold topics in the list below**
Team – 16		1. Kendall Meenan 2. Carlos Mazquiaran 3. Jacob Hall 4. John Su	**Select one of the bold topics in the list below**

Available Topics

1. **The Internet of Things in 2030: What is expected 10 years from now?**
2. ~~The role of Artificial Intelligence in the Internet of Things~~
3. ~~Security and Data Privacy in the Internet of Things~~
4. **Powering the IoT (from batteries to energy harvesting)**
5. **The Internet of Underground Things**
6. ~~The Internet of Underwater Things~~
7. **The Internet of Space Things**
8. ~~The Internet of Nano-Things~~
9. **The Industrial IoT: Future Manufacturing Environments**
10. ~~IoT and Vehicular Networks~~
11. ~~The role of IoT in Smart Health~~
12. ~~The role of IoT in Smart Cities~~
13. **Democratizing the IoT: Facilitating the access to IoT technologies and applications**
14. **Create your own**