APCSP Explore Task—Internet of Things

Concerns:

* Privacy and Security
* IoT devices do not have the processing power to thoroughly encrypt data
* They are constantly collecting data on users and users’ households, which may not be adequately protected
* Your wireless toaster can spy on you
* Also all of the IoT devices will be constantly talking to each other and evolve into Skynet

Benefits:

* Household tasks may be completed more efficiently
* You can control your toaster wirelessly!
* Also you can get a live stream of the contents of your refrigerator!
* And turn off your oven wirelessly so that you don’t burn down your house!

Statistics:

* 2017 will end with 8.38 billion IoT devices
* Which is a couple billion more than the current population of the earth
* 2020 will end with 20.4 billion IoT devices
* Which is a lot more than the current population of the earth
* 2025 will end with the Skynet takeover, judgment day, and the eradication of 95% of humanity
* And IoT will reign supreme!

Sources:

<http://www.philforhumanity.com/Internet_of_Things.html>

<https://www.toptal.com/it/are-we-creating-an-insecure-internet-of-things>

<http://www.gartner.com/newsroom/id/3598917>

<https://www.forbes.com/sites/louiscolumbus/2016/11/27/roundup-of-internet-of-things-forecasts-and-market-estimates-2016/#44a82d82292d>

Computational Artifact Planning

Brief explanation of what IoT is and how it works

Graph of IoT projections