Apresentação da Disciplina: Internet das Coisas

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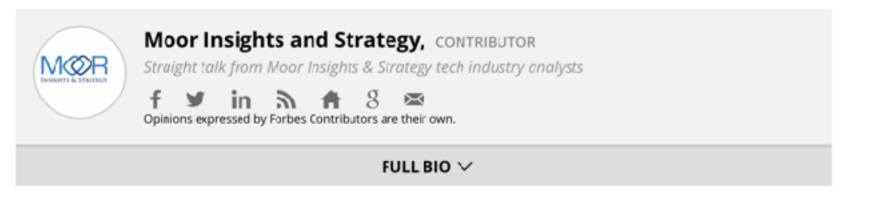
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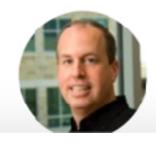
The Internet Of Things Is About Data, Not Things

Moor Insights and Strategy, CONTRIBUTOR

Straight talk from Moor Insights & Strategy tech industry analysts

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FULL BIO ∨

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DISRUPTOR

By **Patrick Nelson** ⭐ **Thought Leader** | **Follow**

OPINION

IoT is the 'new industrial revolution,' says Vodafone

The enterprise is seeing return on IoT investment. And the tech genre is now a quarter of IT budgets.

Network World | JUL 25, 2016 11:51 AM PT

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"IoT can only deliver real value if you effectively use the data it generates."

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Gartner Identifies the Top 10 Internet of Things Technologies for 2017 and 2018
Posted by David Oro on March 1, 2016 at 8:20am

Last week Gartner identified the Top 10 Internet of Things Technologies for 2017 and 2018.

IoT Security
IoT Analytics
IoT Device (Thing) Management
Low-Power, Short-Range IoT Networks
Low-Power, Wide-Area Networks
IoT Processors
IoT Operating Systems
Event Stream Processing
IoT Platforms
IoT Standards and Ecosystems

http://www.iotcentral.io/blog/gartner-identifies-the-top-10-internet-of-things-technologies-for

Conteúdo

Alguns tópicos a serem cobertos:
- Visão geral de Fog Computing (gateways IoT na forma de Raspberry Pi + sensores);
- Plataformas de IoT
- Cenários de uso da IoT
- Protocolos de Comunicação (HTTP, CoAP, MQTT, WebSockets);
- Programação visual de data flow;
- Princípios arquiteturais da IoT;

Linguagem de programação e ambientes a serem utilizados:
- Node.js
- Node RED

Atividades práticas

Foco nos protocolos da camada de aplicação da Internet das Coisas (curso aplicado de sistemas distribuídos)

O curso não é focado em ensinar a fazer "gambiarras" para construir protótipos (nosso foco é nos dados e protocolos), mas utilizaremos um Raspberry Pi nas aulas práticas

Bibliografia

Bahga, A. & Madisetti, V. (2014), *Internet of Things (A Hands-on-Approach)*, VPT.

Zhou, H. (2012). *The internet of things in the cloud: A middleware perspective.* CRC Press.

Holler, Jan, et al. (2014). *From Machine-to-machine to the Internet of Things: Introduction to a New Age of Intelligence.* Academic Press.

DaCosta, Francis (2013). *Rethinking the Internet of Things: a scalable approach to connecting everything*, Apress

Guinard, D. D., & Trifa, V. M. (2016). *Building the web of things.*

Artigos avulsos e livros não tão técnicos mencionados ao longo das aulas

Avaliação

Atividades em sala

Projeto em grupo

Material

https://bit.ly/2PlT1o5