

AKSHAT THIRANI

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EDUCATION

Northwestern University

Grad. 2016

BS in Computer Science
+ Segal Design Certificate

GPA: 3.17 / 4.0

SKILLS

Software:

C, C++, Matlab, Python
HTML / CSS, JavaScript

Hardware:

Electronics & PCB Design (Eagle),
Microcontrollers (Particle, Arduino),
Rapid Prototyping

Design:

CAD (OnShape, NX), Adobe Illustrator,
Drawing, Keynote, Video editing,
Photography

COURSEWORK

Software Project Management
Machine Learning
Design & Analysis of Algorithms
Embedded Systems
Electronics Design
Sensor Networks
Intro to Networking
Computer Systems

INTERESTS

Product Design
Machine Learning
Embedded Systems
Sensor Networks
UI/UX

WORK EXPERIENCE

ampér

January 2015 - present

Founder

ampér helps users be energy efficient by providing real-time insights to energy use & waste, along with appliance control.

The startup received grant funding from Thiel Capital (Peter Thiel's Fund), and won the pitch competition at the Thiel Summit (June 2015).

Smart Circuit Breakers acquire energy data & store it online via a Wi-Fi connected micro-controller. Using Power-communication, the Circuit Breakers can send signals over the electricity lines to control and monitor ampér-compatible appliances.

Using machine learning, an energy disaggregation algorithm identifies individual appliances, and detects potential areas of savings. This information is provided via a mobile app.

Pors & Rao | Bangalore

July 2013 - September 2013

Engineering Intern

Implemented three artwork ideas of the artist duo Pors & Rao (which were presented in a TED talk). Designed electromechanical systems for the art objects which had life-like movements actuated by sensors. I worked under space, sound and material constraints, and lived my dream of combining art and technology.

http://www.ted.com/speakers/aparna_rao

Tower Mechanics | Aurangabad

July 2014 - September 2014

Engineering Intern

Interned at an auto-components manufacturing company where I worked on reducing the number of defects using Poka-yokes and statistics. Led the project of the electronic capture of shop-floor data.

PROJECTS

SensorVisual | HackMIT | October 2014

A project to visualize live accelerometer data from an iPhone on a web page using D3.js and an iOS app.

Wi-Fi Router Location Study | May 2015

Tested Wi-Fi transfer speeds at different router placements. Logged transfer times using Python servers & clients to locally send files over TCP.