

I dive in and solve
problems. A classic
INTP, the world exists
to be analyzed,
understood, and
improved.

Education

NC State University

B.S. Mechanical Engineering

B.A. Science, Tech. & Society

Phi Beta Kappa, Phi Kappa Phi

Summa cum laude

3.9/4.0

Georgetown University

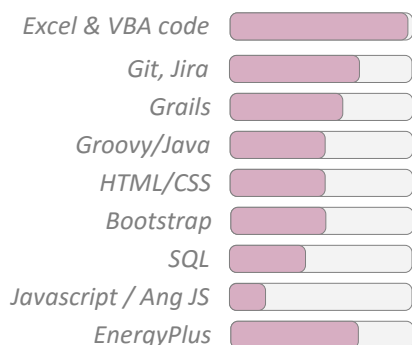
Grad. Certificate, Data Science

(expected completion Jan 2017)

Language

Spanish (conversational)

Software



Skills



Neal Humphrey

{ DATA CRUNCHER | ENTREPRENEUR | MUSICIAN | IDEA MAN }

An engineer by training, running my own tech startup launched me into software development. I love figuring out systems, be they human or technical, using data to understand the world, and thrive where flexibility and cross-disciplinary skills are valued.

Professional Experience

Apr '12 - Feb '16

Founder + CEO

Flashband

Founded and launched a tech startup for musicians to find collaborators. Closed \$200k seed investment, and managed a team of up to 5 staff.

Used Lean Startup and Agile techniques to build and launch our Grails-based website. Created design specifications for the website including database schema and code structure as well as user stories and interface design.

Wrote code for both back-end (Grails/Groovy/Java) and front-end (HTML/CSS/AngularJS). Code management with Git and project management with Jira.

Led and worked on all aspects of the business, from project management to marketing to running in-person events. We ended active operations with over 2,000 musician members and created over 200 one-night bands.

Jul '12 - Apr '13

Global Research Associate

Collaborative Labeling and Appliance Standards Program

Designed and coded the [SEAD Street Lighting Tool](#), a tool for calculating light distribution and energy use. Worked with partners to drive tool adoption. The tool has been translated into 3 languages (Fr, Sp, Ru) and is required by the Mexican government for applicants to their street lighting incentive program. Managed various other research projects focused on international energy efficiency standards including clothes washers and LED lighting.

Apr '10 - Jun '12

Project Manager

Senior Associate

Alliance to Save Energy, Buildings & Utilities Team

Provided education and outreach on energy efficient windows through the Efficient Windows Collaborative. Sat on the National Fenestration Rating Council Board of Directors. Created and presented training and other educational material at conferences and on webinars. Provided feedback on proposed energy policies as they relate to building simulation, energy estimates, building energy codes, and other issues. Assisted with proposal writing and budget planning.

Publications / Portfolio

Flashband website [\[link\]](#)

SEAD Street Lighting Tool [\[link\]](#)

Selecting weather data...
(ACEEE Summer Study 2010) [\[link\]](#)

Global assessment of appliance
standards... (ECEEE 2013) [\[link\]](#)

Trainings

Presenting Data and Information by
Edward Tufte (2013)

Managing to Change the World by
The Management Center (2016)

Professional Experience (cont.)

Apr '13 - May '15
May '07 - Apr '10

Senior Associate (part time) Analyst

Research Assistant

ICF International, Building Energy Efficiency Team

Performed studies of building energy efficiency and developed tools for predicting savings from energy efficiency upgrades. Created and analyzed big data sets of hourly energy use using computer simulations, and created tools to aggregate the data. Coding in Excel VBA, process improvement for team workflows. Simulation optimization with GenOpt and coding in Java.

Jun '04 - Dec '04

Engineering Intern

Vorwerk Elektrowerke, Wuppertal, Germany

Performed sound and vibration testing at an R&D facility.

Fall '03 & '05

Student Engineering Leader (Teaching Assistant)

NC State University

Teaching assistant for the Introduction to Engineering class. Assumed full teaching responsibilities in the second semester, a role not normally given to undergraduates.

Highlights

