

# Andres Cedeno

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## EDUCATION

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**Rice University**, Houston, TX

*Master of Electrical Engineering: Data Science*

GPA: 3.52

May 2016

*Bachelor of Science in Electrical & Computer Engineering*

GPA: 3.46

May 2015

### Relevant Coursework:

- *Data Science*: Business & Urban Analytics, Computer Vision, Data Mining & Statistical Learning, Neural Machine Learning, Statistical Machine Learning
- *Engineering/Computer Science*: Advanced Object Oriented Programming, Artificial Intelligence, Digital Signal Processing, Random Processes & Applications, Operations Research & Optimization

### Major Projects:

*Rice University Plant Optimization & Data Analysis*

Jan. 2016 - May 2016

- Implemented data-driven decision methods to optimize use of campus chillers, boilers, and generators
- Trained machine learning model to predict Rice campus' electricity and chilled water demand using weather and historical data for plant operator use and presented results to administration
- Collaborated on interdisciplinary team with an MBA, a mechanical engineer, and a mathematician

*ParkiT (Senior-Design Team Project – Start-up Company)*

Aug. 2014 - May 2015

- Developed computer vision algorithms. for camera-based, outdoor open parking spot detection
- Tested and implemented feature extraction techniques and machine learning algorithms (knn, support-vector machines, neural networks) accomplishing 99% accuracy detecting classifying parking spots
- Coded web app. including user interface with real-time parking map updates and analytics

## SKILLS

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- **Computer Programming**: Python, MATLAB, R, SQL, Java, Linux, Git, C, Visual Basic, JavaScript, PHP
- **Data Science Tools**: OpenCV, Pandas, Numpy, Scikit-Learn, Weka
- **Language**: Spanish - native proficiency, Portuguese - basic proficiency

## WORK EXPERIENCE

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**Varsity Tutors, Private Tutor**, Houston, TX

Aug. 2016 – Present

- Tutor high school students to improve scores for SAT and mathematics exams

**Schlumberger, New Product Development Intern**, Rosharon, TX

May 2014 - Aug. 2014

- Designed printed circuit board to gather pressure sensor data for oil well tool
- Developed embedded firmware in C for microcontroller to process and transmit data
- Prototyped and tested sand-control tool and presented results to department managers

**HPI, LLC, Controls Engineer Intern**, Houston, TX

May 2013 - Aug. 2013

- Built Programmable Logic Controller (PLC) test-bed and coded Human-Machine Interface (HMI) used for training, development, and simulation of turbine control systems

**Rice ECE Department, Lab Assistant for Fundamentals of EE I & II**, Houston, TX

Aug. 2012 - Dec. 2014

- Hosted weekly lab session and provided feedback on lab reports for 25+ students per semester

## EXTRACURRICULAR ACTIVITIES

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**Rice Salseros, Club President**, Houston, TX

May 2014 - May 2015

- Founded first-ever Rice Salsa dance performance team and increased dance class attendance by 300%
- Planned, marketed, and co-hosted dance event with Houston Salsa organizations raising \$3000

**Society of Hispanic Professional Engineers, Rice Treasurer**, Houston, TX

Aug. 2012 - Present

- Budgeted for and led professional development workshops for university and high school students

**Houston Data Science Meetup**, Active Member, Houston, TX

Sep. 2016 - Present

**Rice Club Tennis Team, Secretary/Graduate Student Representative**, Houston, TX

Jan. 2012 - May 2016

## AWARDS

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**1<sup>st</sup> Place Academic Olympiad**, Society of Hispanic Professional Engineers (SHPE) Region V, 2013, & 2014

**2<sup>nd</sup> Place Academic Olympiad**, Society of Hispanic Professional Engineers National Conference, 2013

**2014 Outstanding Small Chapter of the Year**, SHPE National Conference while Treasurer of Rice SHPE