

# Andy Val

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## EDUCATION

### Rutgers, The State University of New Jersey

New Brunswick, NJ

*Bachelor of Science in Electrical Engineering | Minor in Economics and Computer Science*

May 2019

Relevant Coursework: Software Engineering, Robotics & Computer Vision, Databases, Network Security, Electronic Devices, Digital Logic Design, Data Structures, Matlab

## SKILLS

**Computer/Programming:** Java, Python, SQL, Arduino, Java Spring, PSpice, Matlab, LaTeX, AutoCAD, C++

**Awards & Certifications:** ACUI scholarship recipient, ADDA certified, LSAMP Member

## PROJECTS

### Web Development:

- Developed a website that discusses the history of Rutgers University and other important aspects of the school
- Link to project: <https://prigmoreswamp.herokuapp.com>

### Hardware:

- Developed several home automation systems using an arduino uno (code on [github.com/aval1](https://github.com/aval1)).
- Examples include a motion light control system, temperature display, and volume unit LED meter.

### Software:

- Fantasy Stock Trading App: Uses JavaServer Pages to host SQL databases containing stock information
- Stereo Reconstruction: Using OpenCV-Python, reconstructed 3D objects using 2D images of different views
- BarBeerDrinker: Python application that stores database information on local bars, such as drink inventory and customer transactions

### Room Occupancy Counter:

- Senior Design Capstone project that consisted of an Arduino Uno, which controlled three tripwire sensors mounted inside a door frame
- The system is arranged so that the order the sensors are tripped determines if a person is entering or exiting the room

## WORK EXPERIENCE

### Busch and Livingston Student Centers – Rutgers Student Affairs

New Brunswick, NJ

*Building Operations Manager*

May 2017 – Present

- One of 12 student leaders assisting the execution of 3,000+ events held annually at two Student Center buildings by ensuring all events are supported and staffed properly
- Supervising and facilitating training for a team of 20 recently hired associates on topics such as team management, effective communication, and developing strong decision-making and multi-tasking skills

*Junior Manager*

May 2016 – May 2017

- Shadowed senior managers in a 5-month training program. This program taught responsibilities in event coordination, enhancing guest experience, and facility maintenance within two buildings used by over 20,000 students annually

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

### Sigma Pi Fraternity – Gamma-Eta Chapter

New Brunswick, NJ

*Executive Council - Fourth Counselor*

Nov 2017 – Nov 2018

- Recorded minutes for weekly chapter meetings to discuss professional development and leadership skills, held several events to advance the campus community, and submitted chapter activities for university and fraternity annual reports.

### Rutgers University – Alternative Breaks

New Brunswick, NJ

*Greek Life Specialty Site Leader*

Apr 2017 – May 2018

- Led the first ever Greek Life Specialty Service Trip for students in Gilsum, New Hampshire, where we worked with war veterans on a Rehab Farm to reintegrate back into civilian life after serving

### Rutgers University – Residence Hall Association

New Brunswick, NJ

*Hall President*

Sept 2015 – Feb 2016

- Planned 10 events for 200+ first year students with a minimal \$400 budget; coordinated with other organizations for large scale events; advocated for students interests within the residence hall