

# David Etler

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		Email	davidretler@gmail.com

## Education

**May 2015** Bachelor of Science in Computer Engineering – New Jersey Institute of Technology  
*Currently Attending (Fall 2015)*

**May 2015** Associates of Science in Engineering – Ocean County College  
GPA: 3.95/4.0  
*Graduated Summa Cum Laude*

## Employment History

**Oct 2014 –** Ocean County College, Toms River, New Jersey  
**May 2015** *Peer Tutor, Mathematics Center*

- Tutored students in mathematics and physics
- Gained experience working in a group setting
- Developed strong communication skills

**Apr 2010 –** Six Flags Great Adventure, Jackson, New Jersey  
**Aug 2012** *Host, Retail Department*

- Worked in a fast-paced environment
- Interacted with guests and handled money

## Programming Projects

### RSA Encryption Program

- Implemented RSA encryption in Java with classmate
- Applied object oriented programming concepts such as abstraction to write extensible code
- Included message encryption, decryption, and key-pair generation with support for variable key lengths
- Built a command-line and graphical user interface to drive the program

### Image Compression Algorithm

- Designed and tested an algorithm for image compression in MATLAB in a team setting
- Applied Linear Algebra and the discrete cosine transform to efficiently encode images, similar to the JPEG standard

### Orbital Mechanics Simulator

- Wrote a light-weight C program to numerically solve the N-Body problem
- Used numerical differential equation techniques to simulate the mechanics of orbiting bodies
- Implemented a user interface to render orbiting bodies in OpenGL

## Skills and Proficiency

### Programming Languages

Java, C#, C/C++  
Python, SciPY, iPython  
MATLAB, GNU Octave

### Software

$\LaTeX$ , Beamer, Microsoft Office Suite  
AutoCAD 2014, Wolfram Mathematica  
Git, GCC, GDB, Valgrind

## Awards and Certifications

**May 2015** OCSPE Engineering Scholarship – Ocean County Society of Professional Engineers

**May 2015** Scholarly Horizons Honors Prize – Ocean County College Foundation Board

**March 2015** International Tutor Training Program Certification – College Reading and Learning Association

**Fall 2013 –** President's Honors List – Ocean County College  
**Spring 2015**