David Etler

Address	250 Central Avenue Appt. 1-0611-4	**Mobile Phone**	732-832-6126
	Newark, New Jersey 07103	**Email**	davidretler@gmail.com
		Website	davidretler.github.io

Education

Dec. 2017
(Expected)
Bachelor of Science in Computer Engineering – New Jersey Institute of Technology

Albert Dorman Honors Scholar

May 2015 Associate of Science in Engineering – Ocean County College

GPA: 3.95/4.0
Graduated *Summa Cum Laude*; Phi Theta Kappa Member

Programming Projects

RSA Encryption Program
- Implemented RSA encryption in Java with a classmate
- Included message encryption, decryption, key-pair generation, message signing, and signature verification
- Built a graphical user interface (GUI) to drive the program

Image Compression Algorithm
- Designed and implemented 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 2D with OpenGL

Skills and Proficiency

Programming Languages
Java, C/C++
Python+SciPy, MATLAB and *Mathematica*
HTML, CSS, JavaScript+jQuery

Software
UNIX-like Systems and Utilities
Git version control system
LaTeX with *Beamer*

Employment History

Oct 2015 –
Present
Tutor and Mentor, Newark Kids Code
New Jersey Institute of Technology, Newark, New Jersey

- Helping teach elementary school students from Newark how to program in Scratch

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

- Tutored students in mathematics and physics
- Gained experience working one-on-one and in group settings
- Developed strong interpersonal skills and communication ability

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

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

Awards and Certifications

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

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

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

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