

David Etler

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Education

Jan. 2017 Bachelor of Science in Computer Engineering – New Jersey Institute of Technology
Albert Dorman Honors College

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 JPEG

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

Employment History

Oct 2015 – Tutor and Mentor, Newark Kids Code

Present New Jersey Institute of Technology, Newark, New Jersey

- Teaching elementary school students from Newark about computer science
- Assisting students in creating games in the Scratch programming language

Oct 2014 – Peer Tutor, Mathematics Center

May 2015 Ocean County College, Toms River, New Jersey

- Tutored students in mathematics and physics
- Worked with students one-on-one and in study groups

June 2014 – Warehouse Technician, Carteret Clearance Center

Sep. 2015 P.C. Richard & Son, Carteret, New Jersey

- Assembled grills and organized products for shipment

Skills and Proficiency

Programming Languages

Java, C/C++

Python, MATLAB

HTML, CSS, JavaScript

Software

Shell Scripting and GNU Core Utilities

Git version control system

L^AT_EX and Beamer

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 – *President's Honors List* – Ocean County College

Spring 2015