

David Etler

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Education

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

GPA: 4.0 out of 4.0
Albert Dorman Honors Scholar

May 2015 Associate of Science in Engineering – Ocean County College

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

Skills and Proficiencies

- Compiled programming languages including Java and C/C++
- Scripting languages including Python and JavaScript
- Web design with HTML, CSS, and jQuery
- UNIX Systems, Shell Scripting, and basic SQL
- Git version control system
- Android app development in Android Studio

Programming Projects

RSA Encryption Program

- Implemented RSA encryption algorithm in Java with a classmate
- Included message encryption, decryption, key-pair generation, message signing, and signature verification
- Built an Android application to drive the program

Image Compression Algorithm

- Designed and implemented an algorithm for image compression in MATLAB
- Used 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 and technology
- Assisting students in creating games and animations 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

Activities

- Member of IEEE, New Jersey Institute of Technology Student Chapter
- Participant in NJIT's 2015 Hackathon: wrote an Android chatroom application in 24 hours on a team of four
- Writer for New Jersey Institute of Technology's Albert Dorman Honors College Newsletter
- Helping feed Newark's homeless every Friday through the Newark Newman Club's Extra Mile program

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