David Etler

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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; Phi Theta Kappa Member

Employment History

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

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

Apr 2010 –
Aug 2012 Six Flags Great Adventure, Jackson, New Jersey
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 – Spring 2015	*President's Honors List* – Ocean County College