WILLIAM ELDER
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EDUCATION

California State University San Bernardino San Bernardino, CA - Bachelor of Science in Computer Science, 2014 - Bachelor of Science in Applied Physics, 2014 - Selected Coursework:

   Computer Science Data Structures · Algorithm Analysis · Automata Theory · Theory of Computation · Software Engineering · Robotics and Control · Numerical Computation · Operating Systems

   Applied Physics Electrodynamics · Advanced Electronics · Data Acquisition and Control · Classical Mechanics · Statistical Mechanics · Materials Science

   Mathematics Multivariable Calculus · Linear Algebra · Combinatorics · Number Theory

RESEARCH PROJECTS (ongoing)

Low-Cost Scanning Tunneling Microscope - started 2014 - Analyzed the approach problem. Developed initial control system in LabVIEW, using myRIO hardware.

3D-printed Inverted Pendulum Apparatus - started 2013 - Designed in CAD, targeted primarily for classroom and student use.

PERSONAL PROJECTS (ongoing)

Personal Website - Static website. Written in HTML & CSS

WORK

Datamancer (2014) *Intern*

- Assembled Rep-Rap self-replicating 3D-printer.
- Worked on product design team for new mouse.

Vivendi Games (2008) *QA Tester*

- Provided bug-specific feedback for international development teams working under Sierra Online brand.
- Worked on documenting bugs for several downloadable titles.
- Organized team of 4 for cohesive multiplayer testing for Red Baron Arcade.

COMPUTER SKILLS

- Proficient with Windows, OS X, Linux
- Proficient in C++, Python, LaTeX, Microsoft Excel, bash
- Familiar with Haskell, git, LabVIEW

VOLUNTEER POSITIONS

- Elected as Computer Science and Engineering(CSE) Club Treasurer, CSUSB, 2013-14
- Created CSE Club student library which currently houses over 100 textbooks
- Tutor for CSE Club, 2014

HONORS & AWARDS

- 3.5 GPA after transferring to CSUSB
- Achieved Dean's List for 5 quarters
- Graduated *cum laude* with Departmental Honors in Physics
- Presented work on pedagogical 3D-printed inverted pendulum setup at Southern California Conference for Undergraduate Research

REFERENCES AND TRANSCRIPTS AVAILABLE UPON REQUEST