Patrick J. Varin

Skills Profile

- Experience in Java, C++, Python, MATLAB, Maple, Solidworks and LaTeX
- Experience programming and developing circuitry for a PIC microcontroller
- Basic data aquisition, circuit design and control systems experience
- Strong mathematics and physics background
  - Partial Differential Equations, Linear Algebra, Vector Calculus, Probability/Statistics
  - Modern Physics, Electricity and Magnetism, Mechanics, Optics
- Conversant in French

Experiences

- Teacher's assistant for introductory circuits and control theory course
- Conducted research developing a mathematical model of the human microvasculature
- Project manager and lead developer for an educational physics game
- Co-developer of a computer game controlled by electromyography
- Co-developer of a multiplayer online real-time strategy game
- Lead developer for several simulation projects including:
  - Rutherford scattering from multiple nuclei
  - Oscillatory chemical clock behavior
  - Modeling human blood cell populations
- Project leader for two design-based projects developing mechanical children's toys
- Project leader for the development of a model magneto-hydrodynamic drive system

Education

Candidate For Bachleor of Science in Engineering   **2014**
Franklin W. Olin College of Engineering   Needham, MA

- Concentration in Physics
- Class of 2014 student government representative
- GPA: 3.87

High School Graduate   **2010**
Pewaukee High School   Pewaukee, WI

- Second in Class
- AP Scholar with Distinction, National Honor Society, French National Honor Society
- Academic Decathlon State Champion, FIRST Robotics National Competitor
- JV Soccer Captain, Varsity Letter in Soccer, Scholar Athlete
- GPA: 4.2

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