

# *Curriculum Vitae*

## **Personal Details**

**Name:** Erik John Partridge

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## **Education and Qualification**

Bachelors of Science in Physics and Mathematics, with a Minor in Computer Science

Graduated with distinction in Physics from the University of Denver

Completed with a 3.61 GPA

All A and B grades in Physics and Mathematics.

All but one class A grades in Computer Science.

Advanced placement in High School English

An additional year of literature and English studies from the University of Denver

Current masters student at DIKU

## **Work Experience**

I worked with my high school computer administrator to fix computers on campus (2003-2005)

I have participated in a substantial amount of research projects for the University of Denver, elaborated on in the Research Experience section (2006-2011)

I designed and created a virtual exhibit in SecondLife to showcase our school's research and findings on Epsilon Aurigae (2010-2011)

I have helped create our school's Math Center program, a school-sponsored tutoring program. I was the first person hired to staff the center, and I have provided input on a number of occasions (2010-2011)

I am currently functioning as a Teaching Assistant (grading, proctoring, in-class assistance and teaching once a week, etc.) for many classes, including: Calculus for Students of Business, Calculus I, Introduction to Differential Equations and Introduction to Computational Physics (2010-2011)

I have tutored many students over the course of my time at the University of Denver (2009-2011)

Worked as a teaching assistant at KU for the classes Advanced Programming, Introduction to C++, and Programming Logic (2013 and 2014)

Currently working as a teaching assistant at KU for the class Object Oriented Programming (2013-2014 and 2014-2015)

## **Research Experience (arranged by professor and year)**

### **Dr. Robert Stencel:**

Created Software in the programming language IDL to study patterns and orientations in photos taken of stellar objects (2006-2007)

Used the New Mexico Very Large Array online to capture photographs of several comparison stars (2006-2008)

Manned the Mount Evans observatory belonging to the University of Denver (2007)  
Transcribed a large number of old documents from .pdf to spreadsheet format concerning the Epsilon Aurigae system (2010-2011)  
Created and developed software to control a telescope on campus for students (2011)

**Dr. Barry Zink:**

Maintained conditions for cooling and thin-film experiments (2008-2010)  
Assisted in Scanning Electron Microscope inspection of thin-films (2008-2009)  
Operated and maintained a low-temperature thin-film resistivity experiment (2009-2010) [Senior Thesis]

**Dr. Maria Calbi:**

Uploaded the “LAMMPS” atomic-interaction software to the University of Denver Supercomputer Cluster (2010-2011)  
Researched interaction and absorption/adsorption spectra of carbon nanotubes (2011)

## **Interests and Activities**

I have been an active member of the University of Denver Society of Physics Students club for 5 years, coordinating demonstrations for 4 years  
I participated in our school's Putnam competition – a high-level math competition for undergraduate math majors – alongside my friends from the math and physics departments  
I created a “calculator programming club” in high school  
I particularly enjoy reading science fiction and fantasy novels  
I like to organize board game sessions with friends and family  
I enjoy programming-related puzzles, such as the ones listed at [projecteuler.net](http://projecteuler.net)  
Learning in general interests me, particularly languages and methods of thinking and interaction  
And, of course, physics!

## **Skills**

I have a wide range of programming languages and knowledge. I can write in C++, Java, Python, IDL, Basic, Flash/Actionscript, Prolog, Erlang, Haskell, Scientific Notebook, and an equipment-computer based language LabVIEW  
I am proficient with using any Microsoft Office/LibreOffice programs  
I have tutored many, many students and lectured in front of several groups of more than 30  
I have been ranked quite highly by my students and friends for both my social skills and my ability to explain concepts  
I am preparing for the PD3 exam in Danish, which certifies that I can speak well enough to attend university in Danish.

## **References**

**Dr. Nicolas Galatos** (Abstract Algebra/Discrete Structures lecturer)  
Department of Mathematics  
University of Denver  
email at [ngalatos@du.edu](mailto:ngalatos@du.edu)

**Dr. Mario Lopez** (Computer Science Data Structures and Algorithms lecturer)  
Department of Computer Science  
University of Denver  
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**Don Oppliger** (Tutoring and Math Center Coordinator)  
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**Ken Friis Larsen** (Associate Professor at University of Copenhagen)  
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