Jordan Bayles
Assignment 0
Comp Sci 261
Ron Metoyer
September 28, 2012

1 About Me

A multitude of individuals are drawn to programming for a variety of reasons. Like many others, the driving force that has led me to possess an interest in programming specifically, and computer science and engineering in general, is a life-long infatuation with computers. I built my first computer from Fry's electronics at age 7, and I have loved them more each year as I gain a greater understanding of their underlying configuration and grow in appreciation of the cornucopia of tasks that they can perform.

However, it wasn't merely my love of computers that led me to choose Electrical and Computer Engineering (with a squishy computer focus), especially taking the program at Oregon State. I went to high school at West Salem High School (just up the road from Oregon State proper), and decided upon the ECE program at Oregon State due to (1) ECE's flexibility in my ultimate career path, (2) the relative strength of the EECS department at this university, and (3) the mathematics, physics, microelectronics, and computer classes I finished in high school.

Outside of programming, I try to maintain an active interest in a variety of topics, but primarily limited to video gaming, reading novels (fiction admittedly, but still reading), cooking, and spending time with my family and friends when possible. One activity I really enjoy is writing, especially with quality paper, ink, and fountain pens. I recently purchased a Lamy Safari (Charcoal Black XF) fountain pen and have thorough enjoyed the improvements its brought to my penmanship but more importantly just how much of a joy it is to write with.

Of course, like many EECS students, I do also spend a considerable amount of my free time programming: for side projects, personal usage, and summer internships. I am currently working at Garmin Aviation Technologies (AT, located in Salem OR) part time during the week, after recently completing my second summer internship there. I have thoroughly enjoyed my experience there and it has largely convinced me to go into industry after graduation.

However, I have had some research experience (with Nathan Gibson in Mathematics) and although it was difficult for me (upper level mathematics, material science focus) I thoroughly enjoyed it. For this reason, I am currently also considering getting a Master's degree in Computer Engineering or a related field. In five years, I hope to see myself continuing my education, whether it just be informally on the job, a formal Master's degree, or a business degree such as an MBA.

Figure 1: *Current photo*

2 Programming Experience

I have been a long time Linux user, so I am no stranger to the ways of programming and command line interface usage. The vast majority of my experience stems from personal experimentation, and working in industry. At Garmin AT, I programmed in C, C++, and Python primarily, using Visual Studio 2005 with related tools. More formally, I did take CS 151 with Kevin McGrath, who covered data structures such as Structs and doubly linked lists specifically (all in C). I consider myself a competent programmer in all three languages with the equivalent of 1-2 years full experience, and I am also a novice in Java with much less experience.

Jordan P. Bayles

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JOB OBJECTIVE

Up-and-coming computer engineering student desiring opportunities to build upon and expand engineering skills at a high level and forge positive relationships with employers in related industries.

EDUCATION

Oregon State University **Corvallis, OR**
College of Engineering, B.S. Electrical and Computer Engineering *2010-2014*
- (Cumulative) Grade Point Average: 4.00/4.00
- Full member of Oregon State Honors College
- Minor in Mathematics

West Salem High School **Salem, OR**
Honors Diploma *2006-2010*
- (Graduating) Grade Point Average: 3.95/4.00
- Actively involved with Science and Math Departments
- Member of both Band and Choir programs on competitive levels

EXPERIENCE

Mathematics Research Spring 2012
Mathematics department, Oregon State University
- Awarded Undergraduate Research, Innovation, Scholarship & Creativity (URISC) funding
- **Built upon** existing model (BPVE) of articular cartilage by implementing generalized Polynomial Chaos
- Coordinated closely with OSU faculty to create a polished, publishable paper

Software Engineering Summer 2011
Software Engineering Intern on the GTN 6xx/7xx Project, Garmin AT
- Extensively used **Python 2.6** to increase testing efficiency
- Worked with Garmin's GTN 6xx and 7xx units, both **software emulation** and **hardware testing**
- Gained in depth familiarity with **version control software** in a corporate environment

Software Engineering Summer 2012 - Present
Software Engineering Intern on the MPM2 Map Library Project, Garmin AT
- Helped efforts to migrate from Borland Starteam to **Git version control**.
- Modified and wrote C, C++ source code, unit tests, including **OpenGL**.
- Interfaced with consuming projects (GTN 6xx/7xx, Gxxxx projects)

TECHNICAL SKILLS

Software: Microsoft Office Suite, Visual Studio, Vim, Version Control (Git/StarTeam/Svn), SPICE
Operating Systems: Windows XP & 7, GNU/Linux, Android
Electronics: Oscilloscopes, multimeters, digital logic design, Xilinx, soldering
Languages: C, C++, LaTeX, shell script, Python, Verilog (HDL), Matlab, SPICE, HTML/CSS

ACCOLADES

- HKN Sophomore of the Year
- Garmin Electrical and Computer Engineering Scholarship (Garmin Scholar)
- Drucilla Shepard Smith Scholastic Award
- Honors, College of Engineering Deans Scholar
- National Merit Scholar (Finalist)