Arthur O'Dwyer

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Objective

To secure an interesting and educational summer internship in which my computer programming and mathematical skills will be exercised and improved

Education

Junior at **Carnegie Mellon University**, majoring in **mathematics** (2006); considering a double major or minor in computer science

Spring 2005 midterm QPA: 4.00 2002–2005 cumulative QPA: 3.76

Relevant coursework in C systems programming, functional programming, combinatorics, linear algebra, graph theory, compiler design, and algorithm design and analysis

Have taken courses in Spanish for six and a half years (1997–2003), and in Chinese for two and a half years (2002–2004)

IB Diploma from Richard Montgomery H.S. in Rockville, Md. (2002); National Merit Finalist; Sixth Subject project in computer science: a compiler for a small programming language

Skills

Working knowledge of applications such as Excel, PowerPoint and MSVC, as well as of programming tools such as grep, diff, and man. Have used both CVS and SourceSafe versioning systems

Extensive familiarity with the C programming language and the TI-83 graphing calculator

Varying degrees of familiarity with several other programming languages, including C++, Ocaml, Matlab, Java, SML, Perl, Pascal, METAFONT, and APL

Familiarity with Windows, MS-DOS, and GNU/Linux, including knowledge of 80x86 assembly language. Working knowledge of Mac OS X and other Unix operating systems and shells

Proficiency with typesetting and layout in (LA)TEX and Adobe InDesign

Conversant in Spanish; some knowledge of Chinese

Work Experience

Internship, June–August 2003 and May–August 2004, at Spatial Integrated Systems, Inc., Rockville, Md. (*http://www.sisinc.org/*). Wrote utilities, driver code, camera calibration and feature detection software using Matlab, C, and C++

Work, October 2002–present, as copy manager at *The Tartan*, Carnegie Mellon's student newspaper Volunteered, 2002–2003, on CMU's Robocup AIBO soccer team (a large C⁺⁺ project)

Activities and Interests

Active with *The Tartan*, Student Pugwash, and CMU KGB; member and current secretary of the CMU College Bowl academic competition team

Boy Scout up to Life rank; earned membership in the Order of the Arrow

Interests in relationships between information and data, including programming language design, program generation, machine vision, linguistics, typography, and elegant algorithms in all fields

References available upon request.