

The Résumé of Christopher Mark Gore

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EMPLOYMENT

Astronautics Corporation of America

Software Engineer: direct-hire September 2007 – present, contractor December 2006 – September 2007.

I worked on the Integrated Network Server Unit (INSU) for the Airbus A400M military cargo aircraft, designed as a replacement for the aging C-130 Hercules. This involved programming in the C programming language on the two principal components of the INSU: the Network Server System (NSS) to DO-178B DAL-D, and the Secure Communications Interface (SCI) to DO-178B DAL-C, as well as programming Python scripts for the testing of both. The NSS was an x86 Linux system and the SCI was a PowerPC system running the Green Hills INTEGRITY RTOS. Some of the more interesting elements that I developed were a TCP-based communications protocol for the installation system on the x86 Linux server, two modified GRUB boot loaders, a small-footprint Linux for reimaging the main system, and an Avionics Full-Duplex (AFDX, a variant on Ethernet) test responder on the real-time SCI.

21st Century Systems, Incorporated

Associate Scientist: March – November 2006.

I worked part-time while completing my M.S. My primary duties involved researching for and writing the proposals to DoD SBIRs and STTRs, as well as occasional Java programming.

Unix Systems Group, Information Technology Services, Eastern Illinois University

Computer science intern: May – August 2003.

Southwestern Illinois College

Mathematics lab assistant: Summer 1998 – Summer 2000.

EDUCATION

Missouri University of Science and Technology (formerly the University of Missouri – Rolla)

Master of science in computer science,

3.333/4 GPA,

Spring 2004 – Spring 2008.

For my master's thesis, I have developed a new type of learning classifier system which allows for the accurate modeling of environments consisting of interrelated time-series data in Lisp. This system operated upon an array of data of arbitrary rank, where one of the dimensions is time. I applied this to various financial situations, generating over 13%pa returns with historical data.

I was a Department Representative and later Treasurer for the Council of Graduate Students (CGS,) the governing body for graduate students at UMR. I led the Budgetary Affairs Committee in the formation of a budget for the next academic year. I was Vice President of the campus chapter of the Association for Computing Machinery, the second-oldest campus chapter of the ACM.

Eastern Illinois University

Bachelor of science in mathematics and computer science,

3.32/4 GPA,

Fall 2001 – Summer 2003.

Southwestern Illinois College (formerly Belleville Area College.)

Associate of science in computer science,

3.11/4 GPA,

Summer 1997 – Spring 2001.