

J. William Cupp

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EDUCATION

NOVA SOUTHEASTERN UNIVERSITY · Fort Lauderdale, Florida

Ph. D. - Computer Science, 2007

DISSERTATION: Preliminary Examination for Empirical Knowledge (PEEK): A Fast Heuristic to Estimate the Inherent Degree of Clustering in Data Sets

Master of Science - Computer Science, 2000

NAVAL POSTGRADUATE SCHOOL · Monterey, California

Master of Science - Systems Engineering (Electronic Warfare), 1987

Applied Sciences of Electrical Engineering, Computer Science, and Operations Analysis, including defense acquisition, research and development, system requirements design, and operational test and evaluation.

THESIS: Organic Offboard Electronic Countermeasures System for Surface Ships

FLORIDA SOUTHERN COLLEGE · Lakeland, Florida

Bachelor of Science - Economics, 1980 (cum laude)

MEMBERSHIPS

UNITED STATES NAVAL INSTITUTE

ASSOCIATION OF COMPUTING MACHINERY

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

CONSORTIUM FOR COMPUTING SCIENCES IN COLLEGES

MILITARY AWARDS

NAVY COMMENDATION MEDAL (2 awards: January 1992, June 1993)

NAVY ACHIEVEMENT MEDAL (March 1985)

NATIONAL DEFENSE SERVICE MEDAL (August 1990)

HUMANITARIAN SERVICE MEDAL (September 1992)

MERITORIOUS UNIT COMMENDATION RIBBON (May 1985)

BATTLE "E" RIBBON (January 1993)

SEA SERVICE DEPLOYMENT RIBBON (2 awards: May 1985, December, 1992)

OVERSEAS SERVICE RIBBON (3 awards: July 1994, July 1995, July 1996)

HONORS AND ACHIEVEMENTS

Qualified for Command at Sea, 1991

Tactical Action Officer (pivotal decision maker in combat situations)

Engineering Officer of the Watch (supervisor of mechanical plant)

Officer of the Deck (bridge watch officer underway)
Command Duty Officer (officer-in-charge during inport periods)
Surface Warfare Officer Qualified, 1982
Highest Average in Engineering at Surface Warfare School, 1981
Highest Average in Shipboard Management at Surface Warfare School, 1981
Most Outstanding Economics Major, F.S.C., 1980
Lettered for Academics (four years), Cardinal Gibbons H.S., 1976
Eagle Scout, B.S.A., 1975

MILITARY COURSES

Senior Navigator Refresher Course (2 weeks), Pearl Harbor, Hawaii, 1992
Total Quality Management (1 week), Pearl Harbor, Hawaii, 1991
Drug and Alcohol Awareness Course (Supervisors), (1 week), Pearl Harbor, HI, 1990
Senior Officer Legal Course, (2 weeks), Pearl Harbor, Hawaii, 1990
Surface Warfare Officer Department Head School, (26 weeks), Newport, R.I., 1987
Tactical Action Officer Course (6 weeks), Dam Neck Virginia, 1983
Enlisted Tactical Applications Course (2 weeks), Dam Neck Virginia, 1983
Shipboard Intelligence Officer Course (2 weeks), Norfolk, Virginia, 1983
Target Motion Analysis Course (2 weeks), Norfolk, Virginia, 1983
Electronic Warfare Officer Course (4 weeks), Dam Neck, Virginia, 1983
Naval Tactical Data System Orientation (Manager) Course (3 weeks), Dam Neck, Va., 1983
Operations Security Staff Planning Course, (2 days), Dam Neck, Virginia, 1983
FFG-7 (Frigate) Weapons Officer Course (2 weeks), Dam Neck, Virginia, 1983
Naval Tactical Data System User Course (3 weeks), Dam Neck, Virginia, 1983
Cryptomaterial Management System Custodian, (2 weeks), Charleston, S. C., 1982
Mine Warfare Planning Course (2 weeks), Charleston, South Carolina, 1982
Surface Warfare Division Officer School (20 weeks), Newport, Rhode Island, 1981
Officer Candidate School (16 weeks), Newport, Rhode Island, 1980

ACADEMIC COURSES

BALL STATE UNIVERSITY · Muncie, Indiana
Design and Analysis of Algorithms, 1998
ROYAL MILITARY COLLEGE · Kingston, Ontario, Canada
Intensive Course in Software Engineering, 1996
QUEEN'S UNIVERSITY · Kingston, Ontario, Canada
Real-Time Systems, 1996
Topics in Software Systems, 1995
Logic of Programming Languages, 1995
Introduction to Programming Language Theory, 1994
Software Verification & Validation, 1994
UNIVERSITY OF HAWAII AT MANOA · Honolulu, Hawaii
Linear Algebra, 1990

TRAINING

NSF Chautauqua course "Programming with Alice: A New Strategy for Introductory Computer Science" June 2007 at University of Dayton, Dayton, Ohio
IBM Seminar on "Rational Software Architecture" August 2005 at Ball State University, Muncie, Indiana

NSF Chautauqua course "Network Security" May 2005 at University of Dayton, Dayton, Ohio
NSF Chautauqua course "Hands-On Networking" May 2004 at University of Dayton, Dayton, Ohio
NSF Chautauqua course "Visual Basic .NET Programming" June 2003 at University of Dayton, Dayton, Ohio

TEACHING EXPERIENCE

INDIANA WESLEYAN UNIVERSITY · *Marion, Indiana*

Associate Professor
Computer and Information Sciences Department
Division of Natural Sciences and Mathematics
January 1997 to present

FRANKLIN UNIVERSITY · *Columbus, Ohio*

Online Adjunct Professor
Computer Science Department
September 2001 to August 2003

IVY TECH STATE COLLEGE · *Marion, Indiana*

Adjunct Professor
Computer Information Systems Department
May 1999 to December 2000
General Studies Department (Mathematics)
June 2007 to August 2009

ROYAL MILITARY COLLEGE · *Kingston, Ontario, Canada*

Department of Electrical and Computer Engineering
July 1993 to December 1996

PUBLICATIONS and SCHOLARSHIP

"Reviewing the Professionalization of Software Engineering: Can Small Colleges Remain Viable?"

Journal of Computing in Small Colleges, Vol. 17, No. 1 (Fall, 2001)

"STEPping up: Expanding the Computer and Information Sciences Program"

Senior researcher and co-author of an NSF grant proposal under the *Science, Technology, Engineering, and Mathematics Talent Expansion Program (STEP)* [NSF 04-529], 10 March 2004

Member, Discussion Panel "Developing Senior Capstone Projects"

11th Annual Consortium for Computing Sciences in Colleges: Midwest Conference, 1 October, 2004, Kalamazoo, Michigan

Member, Consortium for Computing Sciences in Colleges Midwest Region Steering Committee

Associate Chair, 12th Annual Consortium for Computing Sciences in Colleges: Midwest Conference, 23-24 September, 2005, Decatur, Illinois
General Chair, 13th Annual Consortium for Computing Sciences in Colleges: Midwest Conference, 29-30 September, 2006, Greencastle, Indiana

MILITARY SERVICE

Assistant Professor, ROYAL MILITARY COLLEGE, *Kingston, Ontario, Canada*

July 1993 - December 1996. Taught Third and Fourth year students courses in Electrical and Computer Engineering. Courses taught include Applied Electromagnetics, Microprocessor Architecture and Assembly Language Programming, Microprocessor Interfacing, Computer Program Design (with Ada), Survey of Control Systems and Computer Architecture.

Navigator, USS BELLEAU WOOD [LHA 3], *San Diego, California and Sasebo, Japan*

February 1992 - June 1993. Responsible for all aspects of safe navigation, including training of bridge watchstanding teams and oversight of watchstander's performance. Additionally responsible for shipwide warfare qualification program for Junior Officer and senior enlisted personnel program, and preparation of inport and underway watch rotation schedules.

Officer in Charge, NAVAL TELECOMMUNICATIONS CENTER, *Pearl Harbor, Hawaii*

February 1990 - January 1992. Leader of communications facility which processes all message traffic for Headquarters, Pacific Fleet and inport ships and shore commands at Pearl Harbor, Hawaii. Unit consisted of 150 military and civilian personnel in a 24-hour, 7-day center operating a mainframe computer communications node.

Operations Officer and Chief Engineer, USS JOSEPH STRAUSS [DDG 16], *Pearl Harbor, Hawaii*

May 1988 - January 1990. Department Head responsible for 80 crewmen conducting all aspects of shipboard operational planning, scheduling, command and control functions, and shipwide training system. Later, Department Head for 130 personnel responsible for all aspects of ship's engineering systems during decommissioning and layup of equipment for storage.

Combat Information Center Officer and Combat Systems Officer, USS ANTRIM [FFG 20], *Mayport, Florida*

September 1983 - June 1985. Division Officer responsible for 20 crewmen conducting shipboard command and control, weapon systems control, preservation of national security material, shipwide training. Filled interim period in absence of superior as Department Head for 90-man team covering all aspects of weapons, sensors, and communications electronics operation and upkeep.

Operations Officer, USS ENGAGE [MSO 433], *Mayport, Florida*

October 1980 - March 1983. Division Officer for 9 people responsible for shipboard operations, including planning, scheduling, training, command and control, sensor and communications electronics upkeep and employment.

PERSONAL DATA

Born in Wheeling, West Virginia on 2 June 1958.

5 feet, 11 inches, 195 pounds, excellent health.

Raised in Pompano Beach, Florida, 1964-1980.

Retired as Lieutenant Commander, U.S. Navy as of 1 February, 1997.

Married Miss Cindy Ewbank of Orlando on 4 October 1980.

Three children, born 1990 to 1994.

Christian.

REFERENCES

Dr. Burton Webb

Associate Dean, School of Physical and Applied Sciences

Indiana Wesleyan University

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