CONTENTS

CURRICULUM VITAE

IMPORTANT NOTE: The contents of this template are entirely generated by a large language model and are solely intended as an example for how to format this document. The contents were not checked for historical accuracy.

EDUCATION

- **Yale University** *1930–1934*
  Graduate School of Arts and Sciences

  - Ph.D. in Mathematics, 1934
    - Dissertation: "New Types of Irreducibility Criteria"
    - One of the first women to earn a Ph.D. in Mathematics from Yale
  - M.A. in Mathematics, 1930

- **Vassar College** *1924–1928*
  Department of Mathematics and Physics

  - B.A. in Mathematics and Physics, 1928
    - Graduated Phi Beta Kappa
    - Valedictorian-level academic standing

EMPLOYMENT

- **United States Navy** *1943–1986*
  Rear Admiral (lower half), United States Naval Reserve
  Pioneer in Automatic Programming and Compiler Design

- **Remington Rand / Sperry Corporation** *1949–1966*
  Senior Mathematician, UNIVAC Division
  Lead Developer, A-0 Compiler and Early COBOL Standardization

- **Harvard University** *1944–1949*
  Research Fellow, Computation Laboratory
  Programmer, Mark I and Mark II Computers under Howard Aiken

- **Vassar College** *1931–1943*
  Associate Professor, Department of Mathematics

STATEMENT OF CAREER GOALS

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PUBLICATIONS LIST

REFEREED JOURNAL PAPERS - PUBLISHED

[1]   Grace Murray Hopper. "Compiling Routines". In: *Annals of the History of Computing* 9.3/4 (1988). Originally published as a Navy report in 1951.

REFEREED CONFERENCE/WORKSHOP PAPERS

[2]   Grace Hopper. "Automatic Coding for Digital Computers". In: *Proceedings of the Symposium on the Mechanization of Thought Processes*. London, UK: Her Majesty's Stationery Office, 1955.

[3]   Grace Murray Hopper. "The Education of a Computer". In: *Proceedings of the ACM National Meeting*. ACM, 1952.

TECHNICAL REPORTS

[4]   Grace M. Hopper. *Compiling Routines*. Tech. rep. NR 384-102. Later reprinted in *Annals of the History of Computing*, 1988. Office of Naval Research, Department of the Navy, 1951.

SOFTWARE ARTIFACTS

[5]   *COBOL (Common Business-Oriented Language)*. Designed under the CODASYL committee with major contributions from Grace Hopper. One of the first high-level programming languages, designed for business computing. Grace Hopper played a key role in its creation and standardization. 1959.

[6]   *A-0 Compiler*. Developed by Grace Hopper and her team at Remington Rand. One of the first compiler systems, converting symbolic mathematical code into machine code. Considered a foundational step toward high-level programming languages. 1952.

RECENT PUBLICATIONS

Numeric citations below refer to the PUBLICATIONS LIST above.

- [1] Hopper (1988)

- [2] Hopper (1955)

- [3] Hopper (1952)

CONTRACT AND GRANT SUPPORT

Supplied by Department.

FACULTY COURSE EVALUATIONS

Supplied by Department.

STATEMENT OF TEACHING PHILOSOPHY AND SELF EVALUATION

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CONTRIBUTIONS TO EDUCATION

Below are some ideas for sections to include in this chapter.

CURRICULUM DESIGN

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TEACHING MATERIALS

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ASSESSMENTS

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NEW PROGRAMS

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COURSES TAUGHT AT CARNEGIE MELLON

Below is an example of how to possibly format these lists.

- Mathematics 101: Introduction to Mathematical Reasoning   *Fall 1935*
  Foundations of logic, set theory, and proof techniques for undergraduates
  35 students

- Mathematics 205: Differential and Integral Calculus   *Spring 1938*
  Classical calculus with applications to physics and engineering
  42 students

- Mathematics 312: Applied Mathematics and Numerical Methods   *Spring 1942*
  Focus on mathematical techniques relevant to wartime computation
  27 students

COURSES TAUGHT OUTSIDE CARNEGIE MELLON

- Mathematics 398: Seminar on Logic and Machines   *Fall 1943*
  Independent study course introducing students to formal logic and mechanical computation concepts
  12 students

OTHER COURSES TAUGHT

- Summer School course

PROFESSIONAL ACTIVITIES

CONFERENCE AND WORKSHOP COMMITTEES

- National Meeting on Automatic Programming, U.S. Navy *1952*
  Served as organizer and lead speaker on automatic compilers

- ACM National Conference *1976*
  Keynote Speaker: "The Future of Computers"

CONSULTING

- **Remington Rand / Sperry Univac** *1949–1966*
  Consultant and senior mathematician for UNIVAC software systems

- **U.S. Department of Defense** *1967–1986*
  Advised on programming language standardization (especially COBOL)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- Fellow, Association for Computing Machinery (ACM)

- Fellow, Institute of Electrical and Electronics Engineers (IEEE)

- Member, American Association for the Advancement of Science (AAAS)

- Member, U.S. Navy League

EDITORIAL BOARD MEMBERSHIPS

- Advisory contributor to technical documentation for the COBOL standard *1960–1963*

OTHER

- Namesake of the annual Grace Hopper Celebration of Women in Computing
  The world's largest gathering of women in technology

- Recipient of the National Medal of Technology (1991, posthumously)

- Namesake of the USS Hopper (DDG-70), a U.S. Navy destroyer

EVIDENCE OF EXTERNAL REPUTATION

CITATIONS AND AWARDS

- National Medal of Technology, *President George H. W. Bush, United States*   *1991 (posthumously)*

- IEEE Emanuel R. Piore Award *IEEE*   *1988*

- ACM Distinguished Service Award *Association for Computing Machinery*   *1971*

- Navy Meritorious Service Medal *United States Navy*   *1980*

- First Computer Science Man-of-the-Year Award *Data Processing Management Association*   *1969*

INVITED TALKS

- Keynote Address, *ACM National Conference*   *1976*
  "The Future of Computers"

- Lecture Series on Automatic Programming, *U.S. Navy Programming Schools*   *1952–1960*

- Distinguished Speaker, *National Bureau of Standards COBOL Conference*   *1960*

SEMINARS & COLLOQUIA

- Seminar on Compiler Construction, *Harvard Computation Laboratory*   *1946*

- Guest Colloquium on High-Level Languages, *University of Pennsylvania*   *1961*

- Seminar on Technology and Education, *MIT Lincoln Laboratory*   *1979*

OTHER

- Namesake of the Grace Hopper Celebration of Women in Computing, the world's largest gathering of women technologists.

- Namesake of the USS *Hopper* (DDG-70), a guided-missile destroyer in the U.S. Navy.

- Inducted into the National Women's Hall of Fame   *1994*

- Presidential Medal of Freedom (posthumously awarded) *President Barack Obama*   *2016*

UNIVERSITY, COLLEGE, AND DEPARTMENT SERVICE

UNIVERSITY SERVICE AND COMMITTEE WORK

- Faculty Advisor for Mathematics Club   *Vassar College, 1935–1943*
  Organized student engagement in applied mathematics and academic competitions

- Curriculum Committee on Wartime Education   *Vassar College, 1942–1943*
  Helped adapt curriculum to support wartime training in mathematics and computation

SCHOOL AND DEPARTMENT SERVICE AND COMMITTEE WORK

- Chair, Mathematics Department Faculty Seminar Series   *Vassar College, 1938–1942*

- Organizer, Student Colloquia on Logic and Symbolic Methods   *1937–1941*

OTHER

- Mentor and trainer for early women programmers in the U.S. Navy   *1944–1960*

- Organizer and instructor, Naval training programs on compiler theory and COBOL   *1959–1970*

STATEMENT OF OTHER SERVICE CONTRIBUTIONS

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STUDENT ADVISING

PHD STUDENTS

- Mary Van Rensselaer Buell (PhD, Navy Programming School)
  [informal doctoral-level mentorship during UNIVAC project]
  1950–1954

  ↪ worked on compiler optimizations and symbolic instruction translation

MASTER'S STUDENTS

- Frances Holberton (MS, ENIAC Project)
  [mentored during Navy programming efforts]   *1946–1952*

  ↪ developed key sorting and editing routines for COBOL

- Jean Bartik (MS, Moore School of Engineering)
  [early collaborator and mentee]   *1945–1950*

  ↪ worked on ENIAC programming and early debugging methods

UNDERGRADUATE STUDENTS

- Eleanor Kolchin (BA, Vassar College) [independent study in numerical methods]   *1940–1943*

- Ruth Teitelbaum (BA, Hunter College) [trained under Hopper at Harvard and later the Navy]   *1945–1949*

MS OR PHD THESIS COMMITTEE SERVICE

- Historical mentorship role only — no formal thesis committee records available. Hopper's work predated widespread university committee structures for computing disciplines.