



# THE COMPUTER REVOLUTION IN CANADA

BUILDING NATIONAL TECHNOLOGICAL COMPETENCE

JOHN N. YARDALAS

# The Computer Revolution In Canada Building National Technological Competence

**John N. Vardalas**



## **The Computer Revolution In Canada Building National Technological Competence:**

**The Computer Revolution in Canada** John N. Vardalas, 2001-07-27 The forces that shaped Canada's digital innovations in the postwar period After World War II other major industrialized nations responded to the technological and industrial hegemony of the United States by developing their own design and manufacturing competence in digital electronic technology In this book John Vardalas describes the quest for such competence in Canada exploring the significant contributions of the civilian sector but emphasizing the role of the Canadian military in shaping radical technological change As he shows Canada's determination to be an active participant in research and development work on advanced weapons systems and in the testing of those weapons systems was a cornerstone of Canadian technological development during the years 1945-1980 Vardalas presents case studies of such firms as Ferranti Canada Sperry Gyroscope of Canada and Control Data of Canada In contrast to the standard nationalist interpretation of Canadian subsidiaries of transnational corporations as passive agents he shows them to have been remarkably innovative and explains how their aggressive programs to develop all Canadian digital R D and manufacturing capacities influenced technological development in the United States and in Great Britain While underlining the unprecedented role of the military in the creation of peacetime scientific and technical skills Vardalas also examines the role of government and university research programs including Canada's first computerized systems for mail sorting and airline reservations Overall he presents a nuanced account of how national economic political and corporate forces influenced the content extent and direction of digital innovation in Canada *Defence and Discovery* Andrew B. Godefroy, 2011-04-01 The Cold War space race between the United States and the Soviet Union is well documented but few are aware of Canada's early activities in this important arena of global power Defence and Discovery represents the first comprehensive investigation into the origins development and impact of Canada's space program from 1945 to 1974 Meticulously researched it demonstrates the central role of the military in Canada's early space research illuminating a significant yet understudied period in Canada's growth as a nation

**The Computer Boys Take Over** Nathan L. Ensmenger, 2012-08-24 The contentious history of the computer programmers who developed the software that made the computer revolution possible This is a book about the computer revolution of the mid twentieth century and the people who made it possible Unlike most histories of computing it is not a book about machines inventors or entrepreneurs Instead it tells the story of the vast but largely anonymous legions of computer specialists programmers systems analysts and other software developers who transformed the electronic computer from a scientific curiosity into the defining technology of the modern era As the systems that they built became increasingly powerful and ubiquitous these specialists became the focus of a series of critiques of the social and organizational impact of electronic computing To many of their contemporaries it seemed the computer boys were taking over not just in the corporate setting but also in government politics and society in general In *The Computer Boys Take Over* Nathan Ensmenger traces the rise to power of the computer expert in modern

American society His rich and nuanced portrayal of the men and women a surprising number of the computer boys were in fact female who built their careers around the novel technology of electronic computing explores issues of power identity and expertise that have only become more significant in our increasingly computerized society In his recasting of the drama of the computer revolution through the eyes of its principle revolutionaries Ensmenger reminds us that the computerization of modern society was not an inevitable process driven by impersonal technological or economic imperatives but was rather a creative contentious and above all fundamentally human development

**Programmed Inequality** Mar Hicks,2018-02-23 This sobering tale of the real consequences of gender bias explores how Britain lost its early dominance in computing by systematically discriminating against its most qualified workers women Harvard Magazine In 1944 Britain led the world in electronic computing By 1974 the British computer industry was all but extinct What happened in the intervening thirty years holds lessons for all postindustrial superpowers As Britain struggled to use technology to retain its global power the nation s inability to manage its technical labor force hobbled its transition into the information age In Programmed Inequality Mar Hicks explores the story of labor feminization and gendered technocracy that undercut British efforts to computerize That failure sprang from the government s systematic neglect of its largest trained technical workforce simply because they were women Women were a hidden engine of growth in high technology from World War II to the 1960s As computing experienced a gender flip becoming male identified in the 1960s and 1970s labor problems grew into structural ones and gender discrimination caused the nation s largest computer user the civil service and sprawling public sector to make decisions that were disastrous for the British computer industry and the nation as a whole Drawing on recently opened government files personal interviews and the archives of major British computer companies Programmed Inequality takes aim at the fiction of technological meritocracy Hicks explains why even today possessing technical skill is not enough to ensure that women will rise to the top in science and technology fields Programmed Inequality shows how the disappearance of women from the field had grave macroeconomic consequences for Britain and why the United States risks repeating those errors in the twenty first century

Inventing the PC Zbigniew Stachniak,2011-05-10 Inventing the PC details the invention and design of the MCM 70 computer and the prolonged struggle to bring it to market Zbigniew Stachniak offers an insider s view of events on the front lines of pioneering work on personal computers He shows what information and options PC pioneers had how well they understood what they were doing and how that understanding or lack thereof shaped both their engineering ingenuity and the indecisiveness and over reaching ambition that would ultimately turn a very promising venture into a missed opportunity Providing comprehensive historical background and rich photographic documentation Inventing the PC tells the story of a Canadian company on the cutting edge of the information age

**For Fun and Profit** Christopher Tozzi,2024-04-09 The free and open source software movement from its origins in hacker culture through the development of GNU and Linux to its commercial use today In the 1980s there was a revolution with far reaching consequences a revolution

to restore software freedom In the early 1980s after decades of making source code available with programs most programmers ceased sharing code freely A band of revolutionaries self described hackers challenged this new norm by building operating systems with source code that could be freely shared In For Fun and Profit Christopher Tozzi offers an account of the free and open source software FOSS revolution from its origins as an obscure marginal effort by a small group of programmers to the widespread commercial use of open source software today Tozzi explains FOSS s historical trajectory shaped by eccentric personalities including Richard Stallman and Linus Torvalds and driven both by ideology and pragmatism by fun and profit Tozzi examines hacker culture and its influence on the Unix operating system the reaction to Unix s commercialization and the history of early Linux development He describes the commercial boom that followed when companies invested billions of dollars in products using FOSS operating systems the subsequent tensions within the FOSS movement and the battles with closed source software companies especially Microsoft that saw FOSS as a threat Finally Tozzi describes FOSS s current dominance in embedded computing mobile devices and the cloud as well as its cultural and intellectual influence

**The Outsourcer** Dinesh C. Sharma, 2015-03-06 A history of how India became a major player in the global technology industry mapping technological economic and political transformations

Visions of a Digital Nation Jacob Ward, 2024-02-06 Why the privatization of British Telecom signaled a pivotal moment in the rise of neoliberalism and how it was shaped by the longer development and digitalization of Britain s telecommunications infrastructure When Margaret Thatcher sold British Telecom for 3.6 billion in 1984 it became not only at the time the largest stock flotation in history but also a watershed moment in the rise of neoliberalism and deregulation In Visions of a Digital Nation Jacob Ward offers an incisive interdisciplinary perspective on how technology prefigured this pivot Giving due consideration to the politicians engineers and managers who paved the way for this historic moment Ward illustrates how the decision validated the privatization of public utilities and tied digital technology to free market rationales In this examination of the national and at times global history of technology Ward s approach is sweeping Utilizing infrastructure studies environmental history and urban and local history Ward explores Britain s nationalist and welfarist plans for a digital information utility and shows how these projects contested and adapted to the market turn under Margaret Thatcher Ultimately Visions of a Digital Nation compellingly argues that politicians did not impose neoliberalism top down but that technology engineers and managers shaped these politics from the bottom up

Making IT Work Jeffrey R. Yost, 2017-10-06 The evolution of the multi billion dollar computer services industry from consulting and programming to data analytics and cloud computing with case studies of important companies The computer services industry has worldwide annual revenues of nearly a trillion dollars and employs millions of workers but is often overshadowed by the hardware and software products industries In this book Jeffrey Yost shows how computer services from consulting and programming to data analytics and cloud computing have played a crucial role in shaping information technology in making IT work Tracing the evolution of the computer services industry

from the 1950s to the present Yost provides case studies of important companies including IBM Hewlett Packard Andersen Accenture EDS Infosys and others and profiles of such influential leaders as John Diebold Ross Perot and Virginia Rometty He offers a fundamental reinterpretation of IBM as a supplier of computer services rather than just a producer of hardware exploring how IBM bundled services with hardware for many years before becoming service centered in the 1990s Yost describes the emergence of companies that offered consulting services data processing programming and systems integration He examines the development of industry defining trade associations facilities management and the firm that invented it Ross Perot s EDS time sharing a precursor of the cloud IBM s early computer services and independent contractor brokerages Finally he explores developments since the 1980s the transformations of IBM and Hewlett Packard the offshoring of enterprises and labor major Indian IT service providers and the changing geographical deployment of U S based companies and the paradigm changing phenomenon of cloud service

*ENIAC in Action* Thomas Haigh, Mark Priestley, Crispin Rope, 2016-06-24 The history of the first programmable electronic computer from its conception construction and use to its afterlife as a part of computing folklore Conceived in 1943 completed in 1945 and decommissioned in 1955 ENIAC the Electronic Numerical Integrator and Computer was the first general purpose programmable electronic computer But ENIAC was more than just a milestone on the road to the modern computer During its decade of operational life ENIAC calculated sines and cosines and tested for statistical outliers plotted the trajectories of bombs and shells and ran the first numerical weather simulations ENIAC in Action tells the whole story for the first time from ENIAC s design construction testing and use to its afterlife as part of computing folklore It highlights the complex relationship of ENIAC and its designers to the revolutionary approaches to computer architecture and coding first documented by John von Neumann in 1945 Within this broad sweep the authors emphasize the crucial but previously neglected years of 1947 to 1948 when ENIAC was reconfigured to run what the authors claim was the first modern computer program to be executed a simulation of atomic fission for Los Alamos researchers The authors view ENIAC from diverse perspectives as a machine of war as the first computer as a material artifact constantly remade by its users and as a subject of contradictory historical narratives They integrate the history of the machine and its applications describing the mathematicians scientists and engineers who proposed and designed ENIAC as well as the men and particularly the women who built programmed and operated it

*IBM* James W. Cortada, 2023-08-01 A history of one of the most influential American companies of the last century For decades IBM shaped the way the world did business IBM products were in every large organization and IBM corporate culture established a management style that was imitated by companies around the globe It was Big Blue an icon And yet over the years IBM has gone through both failure and success surviving flatlining revenue and forced reinvention The company almost went out of business in the early 1990s then came back strong with new business strategies and an emphasis on artificial intelligence In this authoritative monumental history James Cortada tells the

story of one of the most influential American companies of the last century Cortada a historian who worked at IBM for many years describes IBM s technology breakthroughs including the development of the punch card used for automatic tabulation in the 1890 census the calculation and printing of the first Social Security checks in the 1930s the introduction of the PC to a mass audience in the 1980s and the company s shift in focus from hardware to software He discusses IBM s business culture and its orientation toward employees and customers its global expansion regulatory and legal issues including antitrust litigation and the track records of its CEOs The secret to IBM s unequalled longevity in the information technology market Cortada shows is its capacity to adapt to changing circumstances and technologies Wireless and Empire Aitor Anduaga

Egaña,Aitor Anduaga,2009-02-19 Although the product of consensus politics the British Empire was based on communications supremacy and the knowledge of the atmosphere Focusing on science industry government the military and education this book studies the relationship between wireless and Empire throughout the interwar period **Wireless and**

**Empire** Aitor Anduaga,2009-02-19 Although the product of a self proclaimed consensus politics the British Empire was always based on communications supremacy and the knowledge of the atmosphere Using the metaphor of a thread of five pieces representing the categories science industry government the military and the education this is the first book to study the relations between wireless and Empire throughout the interwar period It is also the first to make full use of the abundant archive material and rich sources existing in Britain and the Dominions The book examines the evolving connection between the development of imperial radio communications and atmospheric physics the expansion and strength of the British radio industry and its relationship with the elucidation of the ionosphere and the different extent to which Australia Canada and New Zealand managed to emulate the British model of radio R D in the interwar years The book ends with a highly original and provocative epilogue The realist interpretation of the atmosphere The Unreliable Nation Edward

Jones-Imhotep,2025-03-18 An examination of how technological failures defined nature and national identity in Cold War Canada Throughout the modern period nations defined themselves through the relationship between nature and machines Many cast themselves as a triumph of technology over the forces of climate geography and environment Some however crafted a powerful alternative identity they defined themselves not through the triumph of machines over nature but through technological failures and the distinctive natural orders that caused them In The Unreliable Nation Edward Jones Imhotep examines one instance in this larger history the Cold War era project to extend reliable radio communications to the remote and strategically sensitive Canadian North He argues that particularly at moments when countries viewed themselves as marginal or threatened the identity of the modern nation emerged as a scientifically articulated relationship between distinctive natural phenomena and the problematic behaviors of complex groups of machines Drawing on previously unpublished archival documents and recently declassified materials Jones Imhotep shows how Canadian defense scientists elaborated a distinctive Northern natural order of violent ionospheric storms and auroral displays and linked it to a machinic

order of severe and widespread radio disruptions throughout the country Tracking their efforts through scientific images experimental satellites clandestine maps and machine architectures he argues that these scientists naturalized Canada's technological vulnerabilities as part of a program to reimagine the postwar nation The real and potential failures of machines came to define Canada its hostile Northern nature its cultural anxieties and its geo political vulnerabilities during the early Cold War Jones Imhotep's study illustrates the surprising role of technological failures in shaping contemporary understandings of both nature and nation Made Modern Edward Jones-Imhotep,Tina Adcock,2018-12-14 Science and technology have shaped not only economic empires and industrial landscapes but also the identities anxieties and understandings of people living in modern times Made Modern Science and Technology in Canadian History draws together leading scholars from a wide range of fields to enrich our understanding of history inside and outside Canada's borders The book's chapters examine how science and technology have allowed Canadians to imagine and reinvent themselves as modern Focusing on topics including exploration scientific rationality the occult medical instruments patents communication and infrastructure the contributors situate Canadian scientific and technological developments within larger national and transnational contexts The first major collection of its kind in thirty years Made Modern explores the place of science and technology in shaping Canadians' experience of themselves and their place in the modern world A New History of Modern Computing Thomas Haigh,Paul E. Ceruzzi,2021-09-14 How the computer became universal Over the past fifty years the computer has been transformed from a hulking scientific supertool and data processing workhorse remote from the experiences of ordinary people to a diverse family of devices that billions rely on to play games shop stream music and movies communicate and count their steps In A New History of Modern Computing Thomas Haigh and Paul Ceruzzi trace these changes A comprehensive reimagining of Ceruzzi's A History of Modern Computing this new volume uses each chapter to recount one such transformation describing how a particular community of users and producers remade the computer into something new Haigh and Ceruzzi ground their accounts of these computing revolutions in the longer and deeper history of computing technology They begin with the story of the 1945 ENIAC computer which introduced the vocabulary of programs and programming and proceed through email pocket calculators personal computers the World Wide Web videogames smart phones and our current world of computers everywhere in phones cars appliances watches and more Finally they consider the Tesla Model S as an object that simultaneously embodies many strands of computing A History of Sports Video Games Lu Zhouxiang,2024-12-09 This book explores the history of sports and sports themed video games providing a comprehensive and holistic view of this complex and diverse genre The author highlights the influence of technological advancement industry competition and popular culture on game design marketing strategies and user experience Offering valuable insights into the historical process of interaction and integration between real world sport and video games this volume will enrich existing scholarship on video games This volume is a valuable contribution to the fields of both game



studies and sports studies and will be perfect for those interested in the history of science and technology as well as social and cultural history

*Island Tinkerers* Honghong Tinn, 2025-01-07 How Taiwan rose to global prominence in high tech manufacturing from computer maker to the world's leading chip manufacturer How did Taiwan a former Japanese colony and the last fortress of the defeated Chinese Nationalists ascend to such heights in high tech manufacturing In *Island Tinkerers* Honghong Tinn tells the critical history of how hobbyists and enthusiasts in Taiwan including engineers technologists technocrats computer users and engineers turned entrepreneurs helped transform the country with their hands on engagement with computers Rather than engaging in wholesale imitation of US sources she explains these technologists tinkered with imported computing technology and experimented with manufacturing their own versions resulting in their own brand of successful innovation Defying the stereotype of the West innovates and the East imitates Tinn tells the story of Taiwanese technologists efforts over the past six decades Beginning in the 1960s they grappled with the black boxed computers that were newly available through international technical aid programs Shortly after multinational corporations that outsourced transistor and integrated circuit assembly overseas began employing Taiwanese engineers and factory workers *Island tinkerers* developed strategies to adapt modify assemble and work with computers in an inventive manner It was through this creative and ingenious tinkering with computers that they were able to gain a better understanding of the technology opening the door to future manufacturing endeavors that now include Acer Foxconn Asus and Taiwan Semiconductor Manufacturing Company TSMC

The Canadian Space Program Andrew B. Godefroy, 2017-05-03 Canada's space efforts from its origins towards the end of the Second World War through to its participation in the ISS today are revealed in full in this complete and carefully researched history Employing recently declassified archives and many never previously used sources author Andrew B Godefroy explains the history of the program through its policy and many fascinating projects He assesses its effectiveness as a major partner in both US and international space programs examines its current national priorities and capabilities and outlines the country's plans for the future Despite being the third nation to launch a satellite into space after the Soviet Union and the United States being a major partner in the US space shuttle program with the iconic Canadarm being an international leader in the development of space robotics and acting as one of the five major partners in the ISS the Canadian Space Program remains one of the least well known national efforts of the space age This book attempts to shed a clearer light on the progress made by the CSA thus far with more ambitious goals ahead Technical information diagrams glossaries a chronology and extensive notes on sources are also included in this volume

**The Government Machine** Jon Agar, 2003-09-26 An examination of technology and politics in the evolution of the British government machine In *The Government Machine* Jon Agar traces the mechanization of government work in the United Kingdom from the nineteenth to the early twenty first century He argues that this transformation has been tied to the rise of expert movements groups whose authority has rested on their expertise The deployment of machines was an attempt

to gain control over state action a revolutionary move Agar shows how mechanization followed the popular depiction of government as machine like with British civil servants cast as components of a general purpose government machine indeed he argues that today s general purpose computer is the apotheosis of the civil servant Over the course of two centuries government has become the major repository and user of information the Civil Service itself can be seen as an information processing entity Agar argues that the changing capacities of government have depended on the implementation of new technologies and that the adoption of new technologies has depended on a vision of government and a fundamental model of organization Thus to study the history of technology is to study the state and vice versa

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