<p style="text-align:center">CURRICULUM VITAE</p>

JOHN F BARTLETT

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Performance-driven and extremely motivated entrepreneurial IT executive with achievements and expertise in multiple industry verticals. Extensive well-rounded experience in engineering and managing computer technology projects, at companies such as: Sun Microsystems, Xerox PARC, ABN AMRO, Magnetar Capital, Zenith Electronics, and AT&T. Projects included work in Infrastructure and Support, Disaster Recovery, Telecommunications, Electronic Trading, Consumer Electronics, Retail Systems, Unix and Cloud based systems and applications development. Excellent communications skills, both at the technical and management level.

Native Language

- Fluent in English and Italian (born in Italy, lived in Italy until late teens), and basic conversational in French; naturalized resident alien since 1978.
- Consultant on several biomedical research projects in Italy.

Linguistics

- Translated engineering documents from Italian to English for Olivetti Advanced Tech Center in High School. ● In the Psychology Department at Mount Allison University, did research programming in early childhood development of language acquisition, using Chomsky's Universal Grammar as the basis.

Gen AI

- Developed an AI-based product proof of concept using Pinecone, Langchain, Google AI infrastructure. ● As side projects for personal interest, I set up a website that interfaced with ChatGPT (code from ChatBot UI), as well as used Llama 1 (7B) on my laptop.
- Currently use: Gemini, ChatGPT, Perplexity AI, Meta AI, and Claude (all extensively), as well as Pi, Copilot and Poe as iOS apps.

Large Language Models (ChatGPT etc.)

- Managed the development and deployment of a large language model with 500GB private data for a law firm.

Leadership / Project Management

- Strategically lead multidisciplinary teams through complex projects, ensuring alignment with objectives, proactive risk management, and continuous improvement, using Agile methodologies.

PROFESSIONAL EXPERIENCE

JF BARTLETT & ASSOCIATES 2003 **– Present Consultant – Systems & Applications Development, Infrastructure, Operations, Management and Strategy**

As a development, infrastructure and technology strategy consultant, provide services to small to medium sized startup businesses, finance medical and design companies. Design, specify, implement, and manage hardware, software, hosted services, cloud based technologies, especially for zero closet, no-fail businesses that either need refresh or greenfield solutions.

Projects include:

● For a newly formed Houston based oil drilling company, supporting the executive staff, developing the hosted services strategy, and its website. [2018 - **Present**]

● For a startup, designing and managing the development of a cloud hosted and iOS & Android app [2018 - **Present**] ● For an Iowa based multi-office dental and cosmetic surgery practice, refreshed desktop systems, moved all services to cloud hosted systems, redesigned all systems for HIPAA and website PCI compliance, redesigned and deployed 5 patient facing websites, designed and initiated a USA wide, ongoing web-based advertisement campaign, set up and automated the deployment of social media campaigns. Provide ongoing remote management and support of all services, desktop PCs, Macs, and portable devices. [2016 - **Present**]

● For the leading real estate broker in the Midwest, set up 6 websites for brokers, including interfacing with real time data, social media connectivity, video and 3D model viewing. Developed a live market data model [2015 - 2019].

● For a European multi-site hotel / B&B chain, design and manage the development of the 7 client facing websites, registration and payment systems. Responsible for PCI compliance, as well as online advertising. [2011 - **Present**]

● For a national collections agency, refreshed websites, made systems SOX, PCI, and IRS CAP compliant [2016, 8 months]

● For a hedge fund, transferred all files and email to cloud hosted services, achieving SOX compliance [2014, 14 months]

● For a web-based startup, managed the outsource software development and eventual sale of a software system for managing properties, in PHP on cloud hosted AWS and Unix systems. [2014, 9 month project]

● For a web-based startup, designed and planned the development of the company's production systems (including the web-facing data collections systems, internal call center phone system, data scrubbing and analysis systems), as well as hired all technical talent (employees, onshore and offshore]. Systems and Applications were developed in PHP, Javascript and Java on cloud hosted Unix services, voice system was *Asterisk. [2010, 22 month project]

● For a multi-state Midwest car dealership group, architected the multi-site infrastructure environment, including all off site hosted email, file, voice and network services, reducing overall IT costs by 35%. Designed and managed the development of an RFID based parts and vehicle tracking system to track the servicing of the cars, in Java on Windows based systems. [2010, 16 month project]

● For an architectural firm, planned and managed the cloud-based infrastructure and onsite CAD systems. [2003, 32 month project]

EMI Industries (Tampa, Florida) 5/2023 — 12/2023 **Lead Infrastructure Project Manager**

Led end-to-end infrastructure assessment and modernization initiatives for manufacturing clients, combining business acumen with deep technical expertise. Conducted comprehensive networking and infrastructure assessments utilizing Dell and Cisco systems, identifying risks and developing mitigation strategies. Orchestrated the seamless transition of onsite data centers to cloud-based solutions, leveraging Azure (Outlook & Office), AWS (EC2, S3), Google GCP (GCE, GCS), and Dell Apex managed systems. This initiative enhanced operational efficiency and user satisfaction, delivering tangible business value.

Undisclosed Client (USA) 7/2022 –5/2023 **Project Manager, AI Implementation – Technology Management and Systems Development**

I provided IT strategy, management, and hands-on development for a proof of concept for an AI-based product for a US-based client. The product was initially developed for angel and friends & family funding. I managed the development, testing, and deployment of a large language model (LLM) using private data (500G PDF, text, docx, html, and .mbox data). Development was on Google AI infrastructure (GPUs, TPUs, etc., storage), using Pinecone, Langchain, in Python and Node.js. I defined the project scope and goals, created project plans, facilitated communication, managed risks, tracked progress, reported status, advocated for the project and team, defined project metrics, presented projects to stakeholders, and ensured the team had resources. I also managed the budgets, purchased assets, and was responsible for contractor compensation and management.

Kashwere / TMG Kreations LLC (U.S.A. Based) 1/2019 – 12/2021 **Director, Technology – Technology Management and Systems Development**

For a Chicago area based online retailer, providing IT strategy, management, and hands-on redevelopment of the virtual services environment, cloud based services, and onsite hardware environment, including ERP systems, client facing websites, payment systems, and ordering systems. Developed SQL scripts to export data from the ERP system. Systems include Everest, Magento, Microsoft SQL DB, Google Cloud & Google Workspace and VMWare systems.

Willis Stein & Partners (Chicago, Illinois) 1/2011 – 11/2018 **Consultant – Technology Management and Systems Development**

For a $3B private equity managed the technology environment, including the computer room with 4 server systems, telecom, networking, SAN, transferred all IT systems to cloud hosted systems, including file, voice, remote access, and security services, and managed billing and SEC compliance. Was responsible for all IT plans, policies, budgeting, as well as purchasing, and management of all end user systems, portables, and all services.

Mandarin Oriental Hotels International (Miami, Florida) 2/2008 – 11/2008 **Consultant – Technology Design and Deployment**

Managed the deployment of the new hotel technology environment for the engineering flagship site in Miami, Florida. Planned the deployment schedule for the refurbishment of 450 rooms, the computer room, back and front office, and infrastructure of the hotel. Collaborated in the definition of Mandarin's new Residential Systems and Technology Standard.

MAGNETAR CAPITAL (Evanston, Illinois) 02/2004 – 1/2008 **Senior Technology Professional, Lead**

Designed, managed and participated in the development and implementation of the technology infrastructure of Magnetar

Capital and its offices in Evanston, Illinois (headquarters), New York, San Francisco, Philadelphia, UK, and Japan.

Defined specifications for, selected, and supervised the vendors that implemented the infrastructure technology environment, including the physical infrastructure build-out, cabling, security, power, networking, telecommunication, turrets, servers, monitoring, and support systems. Selected and contracted all market data services for trading operations (e.g. Bloomberg and Reuters), voice systems, and technology consultants. Defined as well as participated in the support of the trading, front and back offices.

CITADEL CAPITAL (Chicago, IL) 3/2003 – 12/2003 Software Development / Infrastructure Consultant

Designed the software infrastructure and server systems of the release management systems of the firm, worldwide.

PRIMODE VENTURE CAPITAL CONSULTANTS LTD (London, U.K.) 3/2001 – 1/2003 Technical Director (Managed 6 Projects) – New Business Development

Managed the day to day technology activities, as well as participated in the development, infrastructure, support, and operations groups of 4 startup companies: Trackview (cellular based tracking), Tracknet (Internet accessible mapping of

traceable devices), Piggybanx (a website and payment system for teens), and Varicom UK (cellular phone accessible email and fax). As acting CTO for Compaq UK Venture Capital Group, developed new business concepts (including a disaster recovery business, a managed outsourced computer operations business, and a smart-card security and payment card). With Primode partners, developed the Compaq UK Innovation Center, an internal resource for entrepreneurial activity.

ABN/AMRO, North America (Chicago, IL) 7/1999 – 2/2001 Consultant (Managed 4 Projects) – Disaster Recovery

Defined the Disaster Recovery environment for all the Domestic and International Treasury trading systems, including applications, computer operations, and networking. Designed a DWDM fiber networking infrastructure solution. When implemented, this fiber network would enable the multi-terabyte replication of all ABN/AMRO N.A. data with millisecond granularity. Planned and managed the development of the secondary client and operation centers for Disaster Recovery, including: site selection, electrical, low voltage wiring, telecommunications, networking, systems, servers, data feeds, and applications for 20+ servers and 500+ clients.

Hired employee and contractor onshore and offshore staff, wrote and managed RFP process with software, hardware, telecommunications, and market feed vendors; defined and implemented continuity planning processes for the client.

STONE CONTAINER CORP. (SMURFIT-STONE CORP) (Chicago, IL) 2/1999 – 6/1999 Consultant (Managed 3 Projects) – IT Strategy

Developed Stone Container's Lotus Notes to Java development strategy, which addressed over 90 enterprise-wide applications. Negotiated and managed outsourcing development and support efforts. Managed teams of onshore and offshore Java, HTML/CSS, and Javascript developers. All systems were deployed to Sun workstations and Apple Macintosh systems, Hired and managed the team in the redevelopment of the corporate website, all hand-coded for the client.

AMERITECH CUSTOM BUSINESS SOLUTIONS GROUP (Chicago, IL) 1/1998 – 1/1999 Consultant, Interim Manager (3 Direct Reports, 60 Staff) – Computer Operations

Directed the Custom Business Solutions Computer Operations group responsible for service center operations of large accounts and for internal groups (ISDN and DSL services).

Managed the computer operations environment, including hardware, software, procedures, budget and management. Reviewed and negotiated outsourcing contracts for support of Operations and Ameritech.net (ISDN and DSL services). Managed the Help Desk. Planned and managed the upgrade of the help desk and support software environment (from Clarify to Remedy).

ZENITH ELECTRONICS / LG ELECTRONICS (Chicago, IL) 1990 - 1998 Senior Director, Infrastructure & Networking (5 Direct Reports, 130+ Staff)

Managed the majority of the IT organization; responsible for the $1.85MM budget, including all hardware, software and services for all of Zenith. Responsible for vendor relations, RFPs and contracts, as well as all building and infrastructural services. Responsible for reducing headcount while increasing technology services to enable better business practices. Responsible for the security and integrity of all corporate data, as well as legal and financial

compliance.

Senior Manager, New Media Engineering and Systems Development (8 Direct Report Staff, 23 Staff) Managed the development of all HDTV software, including the development of 3 set top box systems, their respective support systems and backend operations and infrastructure, as well as the interfaces to the cable headends, satellite uplink systems, and support services. Designed and implemented a TV accessible Internet based social interaction system, to compete with AOL, as well as the support services infrastructure and staffing and managing the call center to support all users.

Manager, HDTV Video Compression (5 Direct Report Staff)

Designed and managed the development of the video algorithms for the US and North American IEEE Standard of High Definition Television, including compression and deinterlacing methods. Defined and implemented a software simulation environment made up of a network of 100+ workstations. Funded and managed the software development by various US and international TV research groups. Co-authored 7 patents in HDTV, video compression, digital transmission, and digital recording technologies (all patents owned and licensed by Zenith Electronics Inc and LG Electronics).

MORGAN CHASE & ASSOCIATES (London, U.K.)
Senior Staff Consultant (3 Clients) – Software Development & Strategy

Software engineering and development consulting projects at Salomon Brothers (code optimized the world basket derivatives trading Black/Scholes models), BP Oil (redesigned the retail automation systems), and London Futures Exchange (optimized and redesigned for global use the real time graphically oriented Automated Pit Trading system). All work on Sun Workstations and DEC Vax 860 systems, in C, C++, on SunOS, Solaris, and BSD Unix systems.

XEROX PARC / PARCPLACE SYSTEMS (Palo Alto, CA)
Program Director (Special Projects -- Intelligence Systems)

Managed the development of analysis systems for use by the US Intelligence Community, on the Smalltalk-80 environment.

SUN MICROSYSTEMS (Palo Alto, CA and Chicago, IL)
Member of Technical Staff (Software Engineer)

Supported 3rd party companies in deploying hardware and software to the SunOS/Solaris environments and Sun Workstations. As Sun's AI Ambassador, was responsible for all Sun AI language products, 3rd party AI development systems integration and porting, benchmarking and SunOS / Solaris kernel and language specific (C, C++ and AI languages) optimization. Wrote and presented papers to AAAI, SIGPLAN, and SIGCHI conferences. For Sun Microsystems, taught an introductory course on device driver porting and development at Stanford University. Managed the pre-sales technical support team in the newly opened Chicago Financial District office; supported Sun's largest financial client.

OLIVETTI ADVANCED TECH CENTER (Cupertino, CA)
Consultant (Software Engineer)

Ported the MS BIOS for Windows .9 (Pre-release Windows Beta) to the Olivetti/AT&T M24 PC. Ported the M20 BIOS to an internal VME based bus card running Zilog 8000, on the PCOS operating system. Developed the keyboard matrices for the US, Asia (Kanji and Katakana), and RTL/Delta keyboards. Documented all ROM based entry points, APIs and linkable libraries.

APPLE COMPUTER (Cupertino, CA)
Consultant (Software Engineer)

Developed and tested the ROM based key matrices for the US based keyboard of the pre-release Macintosh. Work was done in Pascal and Motorola 68000 assembly language on an Apple LISA. QA tested and documented keyboards and layouts.

MOUNT ALLISON UNIVERSITY, PSYCHOLOGY DEPT (Sackville, N.B., CANADA)
Research Assistant

Developed software for statistical research in early childhood language development theoretical work, specifically addressing endemic cognitive constructs, such as language, math, and executive functions skills (e.g. planning,

organizing, and other PFC functions). Programming was in PL/1 and APL on RSTS/E and VAX 11/780 BSD Unix.

OLIVETTI ADVANCED TECH CENTER (Cupertino, CA)
Consultant (Translator)

Translated engineering documents from Italian to English. Work was done on Vax 11/780 running BSD Unix.

EDUCATION
Mount Allison University, Sackville, Canada (Computer Science and Philosophy)

CERTIFICATIONS AND QUALIFICATIONS

● **Cisco** Call Manager Certified (VOIP systems), **Google** Apps 100 and 200 Certified, Google Apps Deployment Specialist, Shoretel Certified Solution Architect, **AWS Solutions Architect**
● Member of IEEE, ACM, AAAI, SIGGRAPH, SIGPLAN, Computer Scientists for Social Responsibility ●
Fluent in **English, Italian and French**

● **Italian and Canadian** Citizen, born in Rome, Italy. Naturalized **Resident Alien** since 1978 ●
TS/SCI Clearance (Expired, can be renewed)

VOLUNTEER WORK
● For a Chicago based media non-profit, Facets Multimedia, designed a video distribution solution with web based applications, iOS, Android, and TV based browsers (e.g. Apple, Youtube TV, Roku). Provide general systems and IT strategy and management consulting. [2018 - **present**]