

Hilliard M. Scott III



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Senior Engineer & Entrepreneur

Professional Experience

Founder & Chief Technical Advisor *GoldTending Inc.* GoldTending Inc, was founded as both a technology consulting firm and as an entity focused on developing a platform for aspiring young entrepreneurs.

Advisory Board for the Strategic Artificial Intelligence Program at the University of Colorado, Colorado Springs UCCS. Board members make a number of contributions to the program, including:

Preserving and enhancing the reputation and quality of the program through strategic review of our credit and noncredit offerings to the community, as well as helping to build our value to the business community.

Offering expert guidance to our faculty and students through occasional classroom visits, forums and conferences, and input on our programs.

Promoting the program's goal of linking industry with academia to help ensure that our work is relevant and benefits the business community.

Technologies: Javascript, NextJS, Firebase, Supabase, OpenAI, Node.js, React, TypeScript, Vue.js

Tools: ViTest, Jasmin, Anthropic, Netlify, Cloudflare, Anthropic, Git, GitHub, Tailwind CSS

Senior Quality Assurance Engineer *Trimble / SketchUp.* I Played a critical role in delivering high-quality software products for designers and architects worldwide. I was responsible for designing, developing, and executing comprehensive test plans, identifying defects, and collaborating with development teams. My expertise contributed to improving testing processes and ensuring the robustness of SketchUp's 3D modeling API.

Technologies: Ruby, C++, Javascript, Node.js

Tools: Atlassian Suite, BitBucket, Git, GitHub, Visual Studio, RubyMine, Cypress, Sauce Labs, Postman, Minitest, Doxygen

Additional Roles: Agile Scrum Master, Team Lead

Senior Engineer ClickBank. As a key member of the team, I was instrumental in automating and streamlining the software development lifecycle. I designed and implemented CI/CD pipelines, managed cloud infrastructure, and ensured the reliability and scalability of our affiliate marketing platform, enabling rapid and dependable software delivery.

Technologies: Ruby, Cucumber, Nutch, Java, Apache Tomcat, AWS, Liquibase, Docker, Doxygen, BitBucket, Git, GitHub, Zeus/Azul

Tools: Atlassian Suite, InjelliJ, NetNeans, Cypress, Sauce Labs, Swagger, Postman

Additional Roles: Agile Scrum Master, Team Lead, Buildmeister

Co-Founder & Director of IT Rebit Inc. I Co-founded Rebit and was part the engineering team that created a groundbreaking, simple, and automatic backup solution for consumers. We developed a "ridiculously simple" backup appliance that required no user intervention, fundamentally changing the landscape of personal data protection.

Technologies: Ruby, Cucumber, C++, Delphi, PostgreSQL, Access, Oracle, MSSQL, Oracle Business 1

Tools: Atlassian Suite, Cypress, Sauce Labs, Postman, Agile Scrum Master, MercurialHG

Additional Roles: Agile Scrum Master, Team Lead, Software Configuration Manager

Exit: Rebit acquired by Betsol Carbonite for 25 Million

Database Consultant / System Architect Worldbank Nile Basin DSS. The Nile Basin Decision Support System (NB-DSS) is a platform developed by the Nile Basin Initiative (NBI) to facilitate cooperative planning and management of the Nile River's water resources by providing data, analytical tools, and modeling capabilities for Integrated Water Resources Management (IWRM). It serves as a central repository for data and offers advanced tools for scenario management, optimization, and multi-criteria decision-making, aiming to support riparian countries in reaching consensus on sustainable water resource development projects.

I Engineered and executed the migration of a core system to a PostgreSQL and Ubuntu Linux environment. This strategic shift away from proprietary Microsoft and Oracle solutions created a sustainable, self-supporting infrastructure while achieving substantial reductions in operational licensing costs.

Technologies: MS Server, MSSQL, Postgres, Unix, C++, Ubuntu Linux, MSSQL, Access, Oracle

Tools: SpiraTest Suite, Visual Studio, Visual Studio Code, MercurialHG

Consultant / System Architect *TC-Solutions*. Converted IT infrastructure from physical on premises to Online AWS. Designed and built Initial front-end website.

Technologies: MS Server, MSSQL, Access, AWS

Tools: Wordpress, Visual Studio, Visual Studio Code, Git

Co-Founder & Director of Quality *Benchmark Tape Systems*. I Co-founded the company and spearheaded the engineering efforts to develop and validate the DLT1 tape drive, a high-capacity data storage solution. My participation was crucial in taking the product from concept to market, establishing a new standard for reliable and efficient data backup for businesses.

Technologies: MS Server, MSSQL, PostgreSQL, OBDR, Unix, Linux, C++, .Net

Tools: TrackStar, Visual Studio, TortoiseSVN, Windows Hardware Lab Kit (HLK), SignTool, WHQL (Windows Hardware Quality Labs)

Additional Roles: Agile Scrum Master, Director IT, Software Configuration Manager

Exit: Quantum acquired Benchmark in 2002 for \$56 million.

Co-Founder & Director of IT *Datasonix Inc.* As a co-founder, I was part of the engineering team that created Pereos, the world's smallest and lightest tape drive. This portable data storage device was a technological marvel, offering unprecedented data mobility and backup capabilities for the time.

Technologies: MS Server, MSSQL, OBDR (One Button Disaster Recovery), Unix, C++, .Net

Tools: TrackStar, Visual Studio, TortoiseSVN, Windows Hardware Lab Kit (HLK), SignTool, WHQL (Windows Hardware Quality Labs)

Additional Roles: Team Lead, Software Configuration Manager, Buildmeister

- **Award:** Patent Number 5,960,460 for Non-Intrusive Replication of Hard Disk – a disaster recovery / data replication computer program ultimately implemented by the Federal Bureau of Investigations as a checking mechanism to confirm the

integrity of replicated data. Also used as a means of disaster recovery of an entire computer system.

Exit: Datasonix was acquired by Exabyte for \$20 million.

Senior Software/Firmware Engineer/IT StorageTek. I Contributed to the development of cutting-edge automated storage systems, including the innovative Iceberg a totally redundant, fault tolerant disk system. My work in tools and software engineering was vital to the functionality and reliability of these large-scale data storage solutions, which were used by major corporations worldwide.

Technologies: MS Server, MSSQL, LSTC2VM, HPuX, Linux, C++, .Net, ASP, ASP.NET, PHP, C#, Perl and VBScript

Tools: TrackStar, Visual Studio, Atria, ClearCase, Windows Hardware Lab Kit (HLK), SignTool, WHQL (Windows Hardware Quality Labs)

Additional Roles: Agile Scrum Master, Team Lead

Awards: Technical Innovator of the Year. Malcom Baldridge Quality Award

Exit: Sun Microsystems acquired Storage Technology Corporation (StorageTek) in August 2005 for US \$4.1 billion.

Aerospace Power Design Engineer Technetics Inc. I designed and built mission-critical power supplies for the nation's most advanced defense and aerospace platforms. My projects included developing power systems for the Space Shuttle (NASA), nuclear submarines (U.S. Navy), and Black Ops helicopters (U.S. Airforce), all requiring the highest levels of precision and reliability.

Technologies: C, C++, i386 Assenbly, MIL-STD-1495

Tools: Aztek Compiler, AT&T Compiler

Additional Roles: NASA Qualified Assembler, Quality Control

Volunteer Experience

Site Engineer/Program Director KGNU 88.5 Boulder. At KGNU Community Radio I was able to fill the unique, combined role of Site Engineer & Program Director. In this leadership position responsible for both the technical integrity of our broadcast signal and the creative vision of the on-air programming. I acted as an advocate for independent media and possessed a blend of technical expertise and a strong sense of community-focused content curation. I was responsible for ensuring KGNU's broadcast was reliable and high-quality while also guiding the

volunteer programmers to create content that fulfilled the mission to educate, entertain, and serve as a platform for underrepresented voices and music.

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Engineering Responsibilities:

Maintain Broadcast Systems: Oversee the maintenance, repair, and installation of all broadcast equipment, including studio consoles, microphones, transmitters, antennas, and remote broadcast gear.

- **Ensure FCC Compliance:** Serve as the station's Chief Operator, ensuring full compliance with all FCC technical regulations, maintaining station logs, and performing required EAS tests.
- **Manage IT Infrastructure:** Supervise the health and performance of station computers, servers, networking equipment, and the audio automation system.
- **Troubleshoot & Repair:** Provide timely and effective troubleshooting for any technical issues that arise, minimizing off-air time and resolving equipment failures.
- **Strategic Technical Planning:** Research, propose, and implement technology upgrades to improve broadcast quality and station capabilities.

Programming Responsibilities:

- **Program Curation & Scheduling:** Develop, manage, and oversee the weekly on-air program schedule, ensuring a diverse and engaging mix of music, news, and public affairs programming.
- **Volunteer Management:** Recruit, train, and provide ongoing support and mentorship to KGNU's large and diverse team of volunteer programmers.
- **Content & Mission Alignment:** Ensure all on-air content reflects KGNU's core mission of diversity, inclusiveness, and providing a platform for overlooked perspectives.
- **Quality Control:** Monitor on-air sound and programming to ensure a high standard of quality and professionalism.
- **Community Engagement:** Act as a liaison between the station and the community, actively seeking out new programming ideas and talent that reflect the diversity of our listenership.

EDUCATION

UCCS	Colorado Springs, CO
Strategic Artificial Intelligence Program	
University of Denver	Denver, CO
Daniels Professional Development Program	
University of Colorado	Boulder, CO
Leeds School of Business Management	
Berklee Music College	Boston, MA
Music Production Program	
Regis University	Denver, CO
Management Information Systems/Business Minor	
University of Colorado	Boulder, CO
Electrical Engineering Studies.	

COACHING

USA Hockey Masters Level 5

University of Colorado	Boulder, CO
Assistant/Goalie Coach. CU Women's Team	
NCAA - Nationals	
Golden High School	Golden, CO
Assistant/Goalie Coach – Varsity	
State Champion	
Hyland Hills	Boulder, CO
Assistant/Goalie Coach Major A	
International Silver Stick Champion	
Hyland Hills	Westminster, CO
Assistant/Goalie Coach Minor A	
State Champion	
Hyland Hills	Denver, CO
Assistant/Goalie Coach Bantam B	
State Champion	
Boulder Hockey Club	Boulder, CO
Head Coach – Major A	
Fairview High School	Boulder, CO
Head Coach – Varsity	
Thundercats Volleyball	Thornton, CO
Video Coach	
AAU – Ranked 7 th in the Nation	