

TERRY G LORBER

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PROFILE

Consensus-building leader of cross-functional product development teams. I've developed strategy and implemented product roadmaps for startups to global businesses. Pro-active project manager experienced with quality systems for medical devices.

EXPERIENCE

Software Engineer, Architect

June 2022 - November 2024

Alloy Enterprises

Burlington, MA

- Planned, built, and maintained proprietary CAD/CAM software to support Alloy's novel manufacturing process. Collaborated across disciplines to unlock aluminum components at scale.
- Software Engineering, Computational Geometry, Manufacturing, Python, C++

Consultant

December 2018 - June 2022

Self-employed

Swampscott, MA

- Consulting services in advanced manufacturing, technology integration, and product development.

VP of Software

August 2017 - December 2018

LightForce Orthodontics

Cambridge, MA

- Joined this pre-seed round dental startup as first software hire. Responsible for medical device and workflow software in support of company's first sale. Deployed cloud-native software stack for LightForce's first 510(K). Contributed system architecture, implementation, regulatory documentation, project management, and product management.
- Medical Devices, FDA, JavaScript, C++, Computational Geometry
- **510(K) No. K183542** Signature Orthodontics System, 2019-01-02
- **510(K) No. K181271** Signature Orthodontics System, 2018-06-13

Director, Global Digital Product Development

August 2010 - August 2017

Atlantis - Dentsply Sirona

Waltham, MA

- Responsible for digital dentistry strategy and project planning for global business. Leader of cross-functional product development team that launched Atlantis' first digital product. Collaborated with business partners to deliver integrated digital workflows.
- Product Development, Cross-functional Team Leadership, Medical Devices, Manufacturing, Business Development
- **US Patent No. 10,390,910 B2** INTEGRATED DENTAL IMPLANT COMPONENT AND TOOL FOR PLACEMENT OF A DENTAL IMPLANT COMPONENT
- **US Patent No. D787,061S** SCAN BODY FOR DENTAL IMPLANT PROCEDURES

Consulting Software Engineer

January 2007 - July 2010

Atlantis - Astra Tech

Waltham, MA

- Technical owner of industry leading B2B platform. Full stack development using JavaScript, Ruby on Rails, PostgreSQL, and C++. Collaborated with business partners to deliver integrated digital dentistry workflows.
- Software Engineering, Medical Devices, Manufacturing, Ruby on Rails, C++, Computational Geometry

Senior Software Engineer

Atlantis Components

August 2000 - January 2007

Cambridge, MA

- First software hire for this dental startup. Supported sales & manufacture of industry's first CAD/CAM dental implant abutment. Automation of data acquisition, product design, and manufacturing workflows
- Software Engineering, Medical Devices, Manufacturing, C++, Ruby on Rails

Product Engineer

Freudenberg Sealing Technologies

June 1996 - September 1999

Bristol, NH

- Product design, prototyping, and testing in support of sales and manufacturing. My first experience with Kaizen and continuous improvement culture.
- C, Siemens NX, Computer-Aided Design (CAD), Manufacturing

EDUCATION

Boston University, Boston, MA

M.S. in Computer Science

September 2013

University of Michigan, Ann Arbor, MI

B.S. in Engineering (Mechanical Engineering)

May 1996

SKILLS

Computer Languages	Bash, C++, JavaScript, Python, R, Ruby, SQL, TypeScript
Operating Systems	Browsers (Chrome, Firefox), Linux (Ubuntu), macOS, Windows
Protocols & APIs	HTTPS, JSON, REST, RPC, WSS, XML, YAML
Databases	MS SQL Server, PostgreSQL, Redis, Sqlite3
Web & App servers	flask, NGINX, node.js, puma
Tools	AWS, Azure, CMake, Docker, Emacs, GitHub, Jira, WordPress
Frameworks	CGAL, FLTK, Node.js, OpenGL, OpenMesh, Ruby on Rails, Sinatra.rb, three.js, Unidraw, VTK, Vue.js
Methodologies	Agile, Continuous Improvement, Kaizen, KanBan
Influencers	Atwood's Coding Horror, Beck's XP, Booch's UML, Brooks' The Mythical Man-Month, DeMarco & Lister's Peopleware, Fowler's Continuous Integration, Spolsky's Joel on Software, Gamma, Helm, Johnson, and Vlissides's Design Patterns, Tufte's Visual Display of Quantitative Information

EXTRA

Programmer, Gardener, Brewer, Hiker, Surfer, Telemark skier

Town Meeting Member — Swampscott, MA — 2018-2024

Cubmaster Pack 55 — Swampscott, MA — 2018-2021

UM College of Engineering Leadership Honor Society — Ann Arbor, MI — 1995-1996

Eagle Scout Troop 295 — Concord, NH — 1991