

# TERRY G LORBER

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## PROFILE

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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

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### 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*

- Advised technology companies on 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*

- Contributed strategy and project planning for global digital business. Leader of cross-functional product development team that launched Atlantis' first digital product. Delivered integrated digital workflows with business partners.
- Product Development, Cross-functional Team Leadership, Medical Devices, Manufacturing
- **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**

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**M.S. in Computer Science***Boston University*

June 2010 - September 2013

*Boston, MA***B.S. in Engineering (Mechanical Engineering)***University of Michigan*

September 1992 - May 1996

*Ann Arbor, MI***SKILLS**

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<b>Computer Languages</b>	Bash, C++, JavaScript, Python, R, Ruby, SQL, TypeScript
<b>Operating Systems</b>	Browsers (Chrome, Firefox), Linux (Ubuntu), macOS, Windows
<b>Protocols &amp; APIs</b>	HTTPS, JSON, REST, RPC, WSS, XML, YAML
<b>Databases</b>	MS SQL Server, PostgreSQL, Redis, Sqlite3
<b>Web &amp; App servers</b>	flask, NGINX, node.js, puma
<b>Tools</b>	AWS, Azure, CMake, Docker, Emacs, GitHub, Jira, WordPress
<b>Frameworks</b>	CGAL, FLTK, Node.js, OpenGL, OpenMesh, Ruby on Rails, Sinatra.rb, three.js, Unidraw, VTK, Vue.js
<b>Methodologies</b>	Agile, Continuous Improvement, Kaizen, KanBan
<b>Influencers</b>	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**

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

Town Meeting Member — Swampscott, MA — 2018-2025

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