
TIMOTHY D. SNOWDEN

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timothy@thompsonpatentlaw.com

**Registered Patent Agent with broad experience
including electrical and software, medical device, and mechanical fields.**

**Excels at rapid and insightful analysis, careful drafting, assertive prosecution, and proactive interviews
on behalf of innovative entrepreneurs, startups, and established companies.**

- EDUCATION**
- TEXAS A&M UNIVERSITY** (COLLEGE STATION, TEXAS)
GRADUATE STUDIES, BIOMEDICAL ENGINEERING (COMPUTATIONAL MECHANICS EMPHASIS) **JUN 2012 – DEC 2012**
- *Course-work* (4.0 GPR): Computational Fluid Dynamics, Numerical Analysis, Drug Delivery, Statistics in Research
 - *Research*: Development of novel non-invasive cardiac assist pump
- B.S. BIOMEDICAL ENGINEERING; MATHEMATICS MINOR** **MAY 2010**
- *magna cum laude* (3.871 GPR), University & Foundation Honors, Engineering Scholar, National Merit Scholar
 - Honors Research Fellow (*Thesis: [Reversing Heart Failure: Diastolic Recoil in a Proposed Cardiac Support Device](#)*)
 - Tau Beta Pi - *elected*; AEMB (*biom. eng. honor society*) – *president, secretary*; Biomedical Engineering Society – *committee chair*
 - **Coursework**: Circuit Theory, Instrumentation, Signal Analysis, Imaging, Electronics | Mechanics (Solid & Fluid-advanced), Materials Device Design & Project Management, FDA Regulation, Entrepreneurship | Cell Biology, Physiology
Calculus III, Linear Algebra, Differential Equations (PDEs and theory of DE)
- NCEES – FUNDAMENTALS OF ENGINEERING** **OCT 2010**
USPTO – REGISTERED PRACTITIONER **NOV 2010**
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- SELECTED EXPERIENCE**
- THOMPSON PATENT LAW OFFICE PC** (CENTRAL TEXAS) **JUL 2020 – PRESENT**
- **ASSOCIATE PATENT AGENT** - Helping technology businesses dominate their markets by helping them obtain Litigation Quality Patents® on Commercially Valuable Chokepoints ... because Litigation Quality Patents Generate More Revenue, Faster®.
- BOLD VENTURES PATENTS** (CENTRAL TEXAS) **DEC 2010 – JUL 2020**
- **PRINCIPAL & PATENT AGENT** (Full-Time 6/2019-7/2020. Previously on-demand as *Solid Rock Design Co* 12/2010-6/2019)- Working with inventors, startups, IP firms, and companies across U.S. to help bring ideas to reality through patent protection.
 - Broad experience in patent drafting and prosecution, focusing on drafting breadth+depth specifications that strongly support a diversity of potential claim amendments, and engaging early with Examiners to minimize pendency by developing cooperative relationship while firmly asserting interests of clients.
 - Author articles, FAQs, and presentations to teach clients and inventors about patent topics.
 - Experience covers software and electrical engineering, medical, agricultural and equine, oil & gas, mechanical, consumer products, and design.
- SOLID ROCK ENTERPRISES** (CENTRAL TEXAS) **DEC 2010 – PRESENT**
- **DIRECTOR OF OPERATIONS** (Full-time 2014-2019. On-demand 2019-present) – Manage operations and design engineering for business services and manufacturing company.
 - Automation control design & installation. Network and server implementation & management.
 - In-house product & process engineering/development, including prototyping, fabrication, machining, 3D-printing and small-run manufacturing, for Solid Rock Manufacturing (design and build of consumer, agriculture, and veterinary products) and Solid Rock Leather (consumer products).
 - Business analysis and marketing for Solid Rock Shutterbugs division providing small businesses with digital marketing.
 - Authored & managed policy documentation and protocols.
 - **IN-HOUSE ENGINEER & PROTOTYPING MANAGER** (2010-2014) – Development in support of prototyping services for startup companies and R&D customers. CAD and HOQ experience.
- MEDTG** (AUSTIN, TEXAS) **JAN 2013 – APR 2013**
- **BIOMEDICAL ENGINEER** (contract) – Worked alongside co-inventor to meet deadline by ‘crashing’ manufacturing prototype project of vascular sampling device: DFM redesign, injection mold design, successful functional prototype including at least 10 custom (in-house) injection molded components.
- TAMU CARDIAC DEVICE DEVELOPMENT & MECHANOBIOLOGY LAB** **JUN 2012 – DEC 2012**
(DR. J. CRISCIONE, COLLEGE STATION, TEXAS) **JAN 2009 – SEP 2011**
- **RESEARCH ENGINEER & SAFETY LIAISON** (*Jun 2012-Dec 2012*) – Lead researcher developing novel fully-implantable cardiac assist pump, including device design and prototyping, and assembly of external pump for comparison purposes. Oversaw undergraduate research engineer and general lab administration. Coordinated with departmental safety supervisors to increase safety awareness and adherence.

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- **RESEARCH ENGINEER** (Feb 2011-Sep 2011), **UNDERGRADUATE RESEARCH ENGINEER** (Jan 2009-May 2010)
 - Performed laboratory characterization and testing of cardiac support and recoil devices, including experimental design, setup, and operation and device prototyping. Developed and designed heart model for use in characterization. Analyzed data in Matlab and edited graphs in Excel for electronic and print presentation.
 - Performed background research & literature review. Authored grant proposals and research publications/presentations.

TAMU BIOMEDICAL ENGINEERING MACHINE SHOP (COLLEGE STATION, TEXAS) **JUN 2012 – DEC 2012**

- **TEACHING ASSISTANT / ASSISTANT MACHINIST** (Jun 2012-Dec 2012) - Machined biomedical related projects, from experimental equipment to device prototypes, and generated engineering drawings from customer's 3D models. Projects included parts for optical systems, shape-memory foam devices, and implantable devices. Trained and oversaw undergraduate and graduate students using the equipment. Maintained inventory and usage records; Authored private usage record database system.

CORINNOVA, INC. (COLLEGE STATION, TEXAS)

JUN 2011 – SEP 2011

- **MANAGING RESEARCH ENGINEER** -
 - Oversaw entire FDA-compatible design/development process for cardiac assist device: design controls, user needs, design specifications, design development.
 - Reviewed designs, authored and edited design documentation, ensured quality assurance review.

DOUG BALDWIN P.C. (BRAZOSVALLEYPATENTS.COM / WELLBORN, TEXAS)

2008 – 2010

- **PATENT AGENT** (contract) (Dec 2010-Apr 2011), **INTERN** (Jun 2008-Jan 2010) - Drafted and edited patent applications and presentations. Performed engineering analysis. Researched legal and engineering issues related to intellectual property, including patents and trademarks.

NELSON & ASSOCIATES SAFETY ENGINEERING (DR. NELSON, BRYAN, TEXAS)

MAY 2010 – NOV 2010

- **TECHNICAL ASSOCIATE** - Reviewed, summarized, and performed safety research related to biomechanics. Authored and/or reviewed and edited numerous educational fact sheets on biomechanics safety topics for lay audiences. Analyzed engineering reports of opposing expert witnesses. Reviewed & proofed outgoing safety engineering reports. Wrote and implemented custom online database application for secure upload of case documents.

TEAM LARYNX – TAMU SENIOR ENGINEERING ANALYSIS & DESIGN PROJECT

AUG 2009 – MAY 2010

- **TEAM LEADER** - Lead development team for NI LabVIEW program used to calculate area of throat lesions. Managed project from conception to delivery, including meetings, task assignments, work breakdown structure and statement of work, scheduling and Gantt charts (MS Project), SBIR proposal, client interfacing, weekly and quarterly progress reports, earned value analysis, design review, safety analysis, and software user documentation. Authored weekly updates and term reports.

SELECTED PUBLICATIONS & PROJECTS

- Snowden, T. **Why Disclose Related Art to the Patent Office with an IDS?** LawFirms. 2020. [URL: <https://www.lawfirms.com/resources/why-disclose-related-art-to-the-patent-office-with-an-ids.html>]
- Snowden, T. **Frequently Asked Questions.** Bold Ventures Patents. 2019-2020. [URL: <https://bvpatents.com/library/inventors/faq/>]
- Snowden, T. **Bootstrapping IP: Protecting Your Invention, Capital, and Cash Flow.** Presentation at Temple Health and Bioscience District. 2019; Temple, TX [URL: <https://www.youtube.com/watch?v=YIEp65ggBV8>]
- **CNC Controller Integration Project.** GitHub. 2018. [URL: <https://github.com/srdco/MazakVQC1540>]
- **CAM Tool Touchoff Integration Project.** GitHub. 2016. [URL: <https://github.com/srdco/CamBamScripts>]
- Snowden, T, Biswas S, Criscione J. **Modulation of Diastolic Filling Using an Epicardial Diastolic Recoil Device.** J Med Device. 2013.
- Moreno, M, Snowden T, et al. **Implantable Device To Modulate Diastolic Mechanics: Demonstration of Adjustable Support In Vivo and Recoil in Bench-Top Tests.** J. Card. Fail. 2010.
- Biswas S, Snowden T, Criscione J. **Modulation of Diastolic Filling Using a Cardiac Support Device with a Diastolic Recoil Component.** Poster session at: Biomedical Engineering Society Annual Meeting; 2010; Austin, Texas.
- Snowden T, Biswas S, Criscione J. **Reversing Heart Failure through Diastolic Recoil.** Oral session at Texas A&M Student Research Week; 2010. *Taxonomy winner for Medicine/Human Nutrition/Biomedical Engineering.* Oral session at TAMU Honors Undergraduate Research Fellows Symposium; 2010; College Station, Texas. *Session winner.* [Poster Presentation](#) at Texas A&M University Pathways Symposium; 2009; Laredo, Texas.
- Nelson G, Snowden T. **Fact Sheet: Physics Calculations Related to Rotating Falling Objects.** Bryan (TX): Nelson & Associates Safety Engineering; 2010. 9 p.
- Snowden, T. **Fact Sheet: Impact! Biomechanics of Impact Related to Falling Objects.** Bryan (TX): Nelson & Associates Safety Engineering; 2010. 2 p.