# **JEFFREY BROWN**

(720) 458-9190 | jeff@compassengineer.com | linkedin.com/in/jebois

### **SUMMARY OF QUALIFICATIONS**

- Executive Management
- Operations Management
- Project Management
- Business Development
- Client & Customer Management
- Strategic Planning
- Product Development Management
- Accident Reconstruction

- Research and Development
- Design Transfer to Manufacturing
- Capital Raise/AAA
- Business Process Improvement
- cGMP Manufacturing
- Design of Experiments
- Project Scoping & Estimating
- Tissue/Cell/Protein Isolation

- ISO 9001 & 13485
- 21CFR 820/1271/211
- Process Engineering
- ERP (Epicor, Alliance)
- Design Controls
- Quantitative Methods
- Resource Planning and Recruiting
- Risk Management & CAPA

#### **WORK EXPERIENCE**

Compass Consulting Engineers | Westminster, CO | 2023 - Present

Compass is a forensics engineering firm providing professional accident reconstruction services and expert testimony

### **Business Manager and Senior Scientist**

- Oversee recruiting, employee training and development, and human resources
- Manage company financials including budget, bookkeeping, tax oversight, client invoicing and accounts receivables, and assets
- Lead business development efforts including marketing, technical/CLE presentations, website and digital marketing
- Assist ownership with strategic planning
- Conduct forensic investigations, reports, and testimony for accident reconstruction

Essent Biologics | Centennial, CO | 2021- 2023

Essent was a subsidiary of AlloSource, specializing in CDMO services and provision of human cells, scaffolds and tissue products

# Vice President, Research & Development

- Shaped, planned and oversaw the execution of the technological vision and strategy
- Spearheaded Business Development opportunities including potential client outreach, collaborations with military/industry/academia, & external funding with domestic & international partners
- Managed personnel, material, equipment, projects & budget for R&D team
- Developed CDMO and PMO arms of the business, writing & successfully securing statements of work totalling over \$1M in first two years
- Successfully developed, design-transferred & commercially launched six human cell & matrix products
- Managed all aspects of Intellectual Property

Essent Biologics/AlloSource | Centennial, CO | 2018-2021

AlloSource is a mission-based human tissue bank which manufactures hundreds of allograft products for implantation

#### Sr. Innovation Scientist

- Technical Lead for all research and development efforts
- Supported futuring efforts and founded Essent Biologics subsidiary company
- Designed, executed and analyzed scientific studies for product development and process improvement.
- Created and managed internal projects for development multiple cellular & biomaterial products from concept to design transfer and launch
- Advanced customer relations and generated revenue by writing and executing statements of work
- Wrote and submitted grants with various military, academic and industry partners
- Prepared technical articles, protocols, and scientific studies in support of strategic licensing and acquisition opportunities

 Managed all material and human resources in the Research and Development department including budget and staffing

Evergreen Research, Inc. | Golden, CO | 2014 - 2018

Evergreen Research is a fast-paced contract medical device design, development and manufacturing company with internal RA/QA support that specializes in complex electro-mechanical systems and sterile disposables from prototyping through production

### **Operations Manager**

- Managed 15-person team of buyers, material handlers, technicians, assemblers and engineers to maintain a 95% on-time delivery record for electromechanical equipment & sterile disposables
- Maintained Device Master Records and Device History Records for 60+ medical devices & spares
- Managed 15+ development, manufacturing and service projects
- Generated statements of work and product transfer prices resulting in sales of \$1 M+/year
- Managed the procurement, handling and accounting of \$4.5M in controlled inventory
- Managed customers/clients including price negotiation, invoicing and AR
- Assisted in month-end and year-end books reconciliation and double-entry accounting
- Assessed performance including promotions, PIPs and annual/off-cycle evaluations
- Defined recruiting needs through FTE planning, led recruiting efforts and oversaw staff training
- Company trainer for design transfer to manufacturing, MRP and engineering change orders
- Wrote/compiled presentation and presented at monthly staff meetings
- Assisted in outside audits by notified body, clients and safety agencies

# Mechanical Design Engineer/Project Manager

- Created/revised solid models and drawings using SolidWorks and PDM
- Led or assisted with creating and maintaining the Design History File including architecture, planning and requirements, design, risk assessment, and IOVV for multiple devices
- Generated and released bills of material, component specifications/detail drawings, assembly procedures/drawings, fixtures and functional tests
- Developed ingestible diagnostics, cast-setting accessories, and developed/sustained the device master record for an ultrasound eye-imaging device and a subdermal RF-heating/tissue reorganization device
- Project Management and Design transfer to manufacturing activities for several products

Tufts University | Medford, MA | 2007 - 2013

Biomedical Engineering Department with specialization in musculoskeletal tissue engineering and biomaterials

#### **Biomedical Research Fellow**

- Young Researcher of the Year, International Symposium on Ligaments & Tendons 2011
- Developed, built and optimized a prototype device for generating cell/biologic/drug-embedded nanofiber/hydrogel composite scaffolds, *patent USSN 61/825, 191 filed May 2013, Brown JP et al.*
- Constructed a LabView-controlled mechanical loading bioreactor for cells and tissues, enabling mechanotransduction research that expanded the laboratory capabilities and led to numerous journal and conference publications

Johnston Engineering | Scottsdale, AZ | 2003 – 2007

Mechanical engineering systems design company specializing in new and renovation plumbing, HVAC, & energy savings projects

# Lead Mechanical Engineer

- Successfully planned and executed 50+ design for construction projects for mechanical systems including HVAC, hydronic and plumbing systems under budget and with 100% regulatory conformance
- Reduced over \$100,000/year aggregate operating costs for client by analyzing existing mechanical systems and building envelopes and implementing state-of-the-art upgrades
- Expanded business scope by serving as a mechanical expert consultant for forensic investigations

### **Project Manager (Contract)**

• Assisted in management of multimillion electrical system renovation at a waste water treatment plant

United States Navy | Aircraft Carrier U.S.S. Abraham Lincoln | 1996-2001 | Honorable Discharge

# **Nuclear Training Officer**

• Increased test scores by 15% for 400-person Reactor Department by designing and implementing novel training techniques and a personalized performance tracking system

# **Chemistry & Radiological Controls Officer**

- Early promotion following peer-led campaign due to superior performance managing a 15-person division including budget, training, promotion, equipment maintenance and procurement
- Ensured the operational readiness of the ship by maintaining the chemistries of two nuclear and steam plants and personnel radiation exposure in strict accordance with US, USN & international regulations

# **Nuclear Engineering Plant Operations Officer**

• Ensured operational readiness by leading a 15-person operations team that controlled a reactor plant and all auxiliaries including main propulsion, electrical and water generation/distribution

### **EDUCATION**

- Ph.D. | Biomedical Engineering, Tufts University, Medford, MA
- M.S. | Bioengineering, Arizona State University, Tempe, AZ
- B.S. | Marine Engineering Systems, Magna Cum Laude, U.S. Merchant Marine Academy, Kings Point, NY

### **AWARDS, PUBLICATIONS & CERTIFICATIONS**

- Outstanding Contribution to Undergraduate Education, 2010, Tufts University School of Engineering
- Chair of Biomedical Engineering Academic Fellowship, 2008, Tufts University School of Engineering
- Young Researcher of the Year Award, International Symposium on Ligaments and Tendons, 2011
- Surface Warfare Officer Qualified, 2000, USS Abraham Lincoln
- Engineering Officer Qualified, 2000, Naval Reactors, Washington D.C., highest possible evaluation
- Navy Achievement Medal for Outstanding Engineering Instructor, 2001, USS Abraham Lincoln
- Navy Achievement Medal for Outstanding Project Manager, 1999, USS Abraham Lincoln
- Brown JP *et al.* "Elastogenic Protein Expression of a Highly Elastic Murine Spinal Ligament: The Ligamentum Flavum," *PLoS ONE* 7(6): e38475 (2012)
- Brown JP et al. "Embryonic Mechanical and Soluble Cues Regulate Embryonic Tendon Cell Gene Expression as a Function of Developmental Stage and Anatomical Origin," J. Biomechanics 47(1): 214-22 (2014)
- Brown JP *et al.* "Comparing the Responses of Murine Mesenchymal Stem Cells and Tenogenically Differentiating Cells to Embryonic Developmental Factors," *Stem Cell Research & Therapy* 6(1): 89 (2015)
- Patents for novel electrospinning method and biological solutions for regenerative medicine