

## PROFILE

Executive level Engineering and Operations professional. Strategic planning and operational oversight; Software development lead; Cultivation of staff excellence in Engineering, DevOps, Security, & Product business units; Project management for high impact projects; Creating operational efficiencies. Decisive, effective decision making, under pressure, in constantly changing environments.

## EXPERIENCE

**Vice President of Engineering***Copia*

2021-present

At Copia, I Inspire and serve the Engineering and Technical Program Management (Product) teams. Some notable accomplishments include:

Met first year goals in 6 months.

Launched a major customer facing SASS App in 5 months.

Managed personnel, re-org, and architecture for a small team.

Doubled the engineering team

Hands-on engineering leader

Key contributor to Copia's Mission and Vision statements

Identified, curated, and introduced new IP valued at over a million USD per year

Met with prospective investors and contributed significantly to investor data room for Copia's second round of seed funding

**DIRECTOR OF CLIENT ENGINEERING***Intellum*

2018-2021

Promoted to Director of Client Engineering within 6 months of hire.

Provided leadership and process accountability for Client Engineering

Drove an innovative culture comprised of self-directing teams using Agile methodologies

Managed hiring, career planning, training and performance reviews for the Client Engineering Team

Managed technical debt

# M. TUCKER BRADFORD

Developed software engineering plans, best practices, and procedures

Fostered fruitful relationships with external vendors and partners

Removed technical and non-technical obstacles to promote maximum team efficacy and performance

Facilitated timely, successful delivery of features, bug-fixes and other technical deliverables

## **CAPTAIN**

*s/v Convivia*

2011-2018

Creator of [forgeover.com](http://forgeover.com), a unique travel blog, detailing our around the world family sailing adventure.

Responsible for the safe transport, maintenance, and handling of an international yacht voyage.

Client-side project management for a major 52 day refit in a commercial shipyard in Malaysia. Some local language acquisition was required.

Owner/developer [Farkwar.com](http://Farkwar.com). A service I created to "give back" to the cruising community.

Emergency reroute and refit in Brazil to repair damaged rigging and engine.

## **CTO**

*White Crow Productions Pty Ltd, Brisbane, QLD, Australia*

2013-2015

Strategic and Tactical planing and direction for Rise of the EcoWarriors film and Frontier Film Foundation IT initiatives.

Oversaw development of several e-learning contracts. Clients include Origin Energy and Arrow Energy.

Developed a full stack web architecture for crowd funding. Initial target was rainforest conservation projects ([rainforestconnections.org](http://rainforestconnections.org)). Instantiated cloud based services for deployment; provisioned and tuned load balancers, app servers, and asset servers for performance; established rigorous security and availability to withstand a targeted attack from competitors.

Designed and coded an e-commerce website for a medical test ([sibotest.com](http://sibotest.com)). Special emphasis placed on patient/practitioner relationship and education/public outreach for the test and it's associated considerations.

Created software systems for e-learning, including a lightweight, highly available service for printing land access cards for students.

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## **DIRECTOR OF INFORMATION TECHNOLOGY, SECURITY, & FACILITIES**

*SETI Institute, Mountain View, CA, USA*

2000-2011

### Information Technology & Security Highlights:

2000 Established the SETI Institute's IT Department. Drafted, justified, and executed (to  $\pm$  3%) first budget. Established policies, procedures, and ethos. Hired and trained staff.

2002 Designed and implemented network and security infrastructure for the Allen Telescope Array in northern California. Won buy-in from the oversight committee, which consisted of representatives from the Allen Foundation, UC Berkeley, and the SETI Institute.

Invited to join NASA's NAI IT Working Group. Continued to serve as a mentor and participant through the present date.

2004 Secured donations equalling \$172,000 towards our capital campaign and over a half million in in-kind donations.

2006 Promoted to Senior Management following my significant contribution in the negotiation of the "Space Act Agreement" between SETI and NASA.

2009-10 Re-architected the Institute's IT infrastructure in preparation for FY10 relocation. Acquired donations of new servers, coordinated deployment and designed the network architecture.

### Facilities Highlights:

Project Manager for the SETI Institute's relocation to a new 40,000 sq ft facility. Organized and managed a matrix team that identified, designed, and renovated a warm shell into a full-service scientific research headquarters.

## **IT OPERATIONS MANAGER**

*RateXchange, San Francisco, CA, USA*

1999-2000

## **C.I.T. ANALYST, ACTING WEBMASTER**

*Stanford University, Stanford, CA, USA*

1998-1999

## **IT MANAGER, DEVELOPER**

*International Software Products, Brattleboro, VT, USA*

1996-1998

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## CERTIFICATIONS AND COURSEWORK

[REACT BOOTCAMP](#)

PMP/CISSP (LAPSED)

## SKILLS

### MANAGERIAL:

- Cultivation of mind share and buy in, and strong professional relationships.
- Extensive project management experience (Agile, Waterfall, Homegrown).
- Developing business strategy, growth plans, and policies.
- Excellent collaboration skills, both technical and interpersonal.
- Management of technical staff. Hiring, motivation, salary setting, and retention.
- Business continuity and disaster recovery planning.
- Procurement of technology and services.
- Cross-functional Operations Management experience (IT, Security, and Facilities).
- Mastering new concepts and skills.
- Product Development
- Product Management
- Scrum/Agile

### Technical Mastery:

- Ruby, Ruby on Rails, Sinatra, Perl, Php. Javascript, React
- Physical and logical networking and Layer 2/3 security.
- Security architecture (VPN, firewalls, switch configuration, IDS/IPS, log monitoring, aggregation).
- WAN/MAN networking, including aggressive cost management and vendor management.

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- Un\*x server management (Integrated authentication/authorization, web/mail/dns, snmp, custom enterprise solutions).
- Database architecture, management, and development (Oracle, Mysql, MS SQL, Postgres).