# M. TUCKER BRADFORD

PROFILE

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

EXPERIENCE

### CAPTAIN
*s/v Convivia*                                                                                           *2011-present*

2011-now   Responsible for the safe transport, maintenance, and handling of an international yacht voyage.

2015-16     Client side project management for a major 52 day refit in a commercial shipyard in Malaysia. Some local language acquisition was required.

2016-17     Emergency reroute and refit in Brazil to repair damaged rigging and engine.

### CTO
*White Crow Productions Pty Ltd, Brisbane, QLD, Australia*                                *2013-2015*

2013-14     Strategic and Tactical planing and direction for Rise of the EcoWarriors film and Frontier Film Foundation IT initiatives.

2013-14     Oversaw development of several e-learning contracts. Clients include Origin Energy and Arrow Energy.

2013-14     Developed a full stack web architecture for crowd funding. Initial target was rainforest conservation projects (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.

2013-14     Designed and coded an e-commerce website for a medical test (sibotest.com). Special emphasis placed on patient/practitioner relationship and education/public outreach for the test and it's associated considerations.

2013        Created software systems for e-learning, including a lightweight, highly available service for printing land access cards for students.

### DIRECTOR OF INFORMATION TECHNOLOGY, SECURITY, & FACILITIES
*SETI Institute, Mountain View, CA, USA*                                                   *2000-2011*
Information Technology & Security Highlights:

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2000     Established the SETI Institute's IT Department. Drafted, justified, and executed (to ± 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 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*
Promoted from Senior Unix Engineer to Software Operations Manager after six months.

Specified and implemented RateXchange's enitre LAN/WAN architecture including bandwidth, servers, desktops, firewalls, and collocation.

Specified and implemented high availability and e-commerce services.

C.I.T. ANALYST, ACTING WEBMASTER
*Stanford University, Stanford, CA, USA*                                      *1998-1999*
Piloted Stanford University's Disaster Recovery Program.

Took over management of the University's website.

Developed an online system for electronic access to bill and card balances that required an automatic database translation and inter-departmental communication.

IT MANAGER, DEVELOPER
*International Software Products, Brattleboro, VT, USA*                    *1996-1998*
  Started as a developer. Given responsibility of setting up support department and
  internet presence. Shortly thereafter began to travel on technical pre-sales, customer
  service and training, and customer board meetings.

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CERTIFICATIONS

PMP/CISSP (LAPSED)

SKILLS

MANAGERIAL:

- Cultivation of mind share and buy in, and strong professional relationships.

- Extensive project management experience.

- 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.

Technical Mastery:

- Ruby, Ruby on Rails, Sinatra, Perl, Php. (Some jQuery, React.js)

- 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.

- Un*x server management (Integrated authentication/authorization, web/mail/dns, snmp, custom enterprise solutions).

- Database architecture, management, and development (Oracle, Mysql, MS SQL, Postgres).