RYAN McDERMOTT

3301 McElroy Dr • Austin • Texas • 78757 • 469-323-9218 • rjmcdermott81@gmail.com

OVERVIEW

Engineer with an M.S. in Mechanical and Manufacturing Engineering from Texas State University and a B.S. in Mechanical Engineering from the University of Texas at Austin. Published composites researcher under Dr. Jitendra Tate, with hands-on expertise in manufacturing processes and additive manufacturing, combined with more than fifteen years of industry experience across engineering, product management, and technology leadership.

Passionate about experiential, hands-on teaching that connects engineering fundamentals to real-world practice and sends students into the workforce confident in their ability to solve problems.

COURSES QUALIFIED TO TEACH

- Engineering Materials, Mechanics of Materials (composites research, mechanical/ablative testing)
- Manufacturing Processes (wet layup, vacuum infusion, compression press, welding)
- Additive Manufacturing (FDM and UV-curable design and printing)
- Engineering Graphics / CAD, CAD/CAM (SolidWorks, AutoCAD, Mastercam)

EDUCATION

- University of Texas at Austin — B.S. Mechanical Engineering, 2005
- Texas State University — M.S. Mechanical and Manufacturing Engineering, 2018
  Thesis: Exploration of a New Affordable Thermal Protection System Utilizing Needle-Punched (2.5D) Fabric Composites under Dr. Jitendra Tate

PUBLICATIONS

McDermott, R. M., Tate, J. S., & Koo, J. H. (2022). Exploration of a new affordable thermal protection system utilizing 2.5D silica/polysiloxane composite. Journal of Composite Materials, 56(5), 685–698. https://doi.org/10.1177/00219983211038622

HONORS/AWARDS

1st place 2018 SAMPE University Symposium
2017 Graduate Fellowship Award
Phi Kappa Phi Honor Society

ENGINEERING PROJECTS

Tesla Conversion of 1993 RX-7: 1993 Mazda RX-7 Tesla Conversion
1991 BMW 318is modernization, painting, and restoration: 1991 BMW 318is Build

RESEARCH EXPERIENCE

Texas State University (2015-2018)
Master's Student with a focus on composites

- Worked to develop a next generation 2.5D composite thermal

protection system material for use in solid rocket motors
- Experience building composite materials using wet layup, vacuum infusion, and compression press
- Experience designing for and printing with FDM and UV curable 3D printers
- Familiar with Mastercam, AutoCAD, and SolidWorks
- Mechanical and ablative testing for composites and materials

PROFESSIONAL EXPERIENCE

Thriviti (2022-Present)
Co-Founder and Partner
- Founded a technology services company and grew it to over $1M per year in revenue
- Incorporated AI (Claude, ChatGPT) capabilities to build software and processes internally that differentiate us against the market

Appgate (2019-2022)
Sr. Director - Revenue Operations
- Product manager for all software tools responsible for the selection, design, implementation, training, and continuous improvement
- Responsible for business process definition, improvement, and documentation across the entire revenue organization
- Managed an in-house business development team that doubled its monthly output

Verizon Terremark (2004-2009 | 2010-2019)
Product Marketing Manager, Digital Marketing Manager, Product Manager, Director - Sales Engagement Team
- Throughout tenure, managed the Inside Sales Team, RFP Team, and Lead Qualification Team
- Use case development and deliverable creation – competitive battle cards, website material, reference architecture, and customer facing presentations
- Sales enablement material creation – fact sheets, white papers, and proposal materials
- Web content creation – demo videos, copywriting, and design
- Digital Marketing Manager for new public cloud platform, Verizon Cloud
- Managed end-to-end integration from product definition to sales rollout
- Responsible for evangelizing Verizon Terremark's cloud services at executive briefings, trade shows, and partner events
- Responsible for creating pricing models and managing discount approvals

VOLUNTEER

Soccer Coach for North Austin Soccer Association (2023-2026)
Cub Scout Den Leader (2019-2023)

LinkedIn Profile: http://www.linkedin.com/in/ryanmcdermott/