

Matthew Tavares

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Battle-hardened and seasoned Mechanical Design professional with extensive experience and demonstrated experience in Mechanical Design, Mechanical Engineering, Consultative and Technical Sales Support, Prototype and Production Fabrication. Adept in identifying and proposing innovative solutions to meet client requirements. Inspiring leader with a track record of skillfully managing high performing teams to achieve aggressive project objectives. Strong interpersonal skills proficient in nurturing stakeholder relationships and communicating effectively with clients, management, vendors and other engineering resources. Matt lives in Dallas, likes to rock climb, build battlebots, and speaks survival Spanish.

SKILLS

SOFTWARE

Over 10 Years:

Solidworks • Matlab • Autocad • Linux
Microsoft Office • Photoshop • Windows
Illustrator • HTML • CSS • \LaTeX • Mac

Over 3 Years:

EPDM • Solidcam • GCode • Inventor
Rhino • InDesign • PHP • Java • C • C++

Familiar:

PTC Creo • OnShape • Sketchup
Fusion360 • Labview • OpenCV

LINKS

Portfolio:// M.atthew.com

Blog:// TavaresLabs.com

Twitter:// [@MatthewTavares](https://twitter.com/MatthewTavares)

YouTube:// MatthewTavaresLabs

LinkedIn:// [MJTavares](https://www.linkedin.com/in/MJTavares)

Github:// [MattTavares](https://github.com/MattTavares)

AWARDS

2009 1st Battlebots (mentor)
2008 2nd BotsIQ 15lb
2007 Texas Hall of Heroes
2007 1st BotsIQ
2007 Best Engineered Bots IQ
2007 Xerox Creativity FIRST
2006 2nd FIRST Regional
2006 Eagle Scout
2005 Best Engineered BattlebotsIQ
2004 Coolest Robot BattlebotsIQ

EDUCATION

UTDALLAS

MECHANICAL ENGINEERING
Richardson, TX

RICHARDSON MAGNET HS

Grad. May 2007 | Richardson, TX

EXPERIENCE

VERCÉT LLC | MECHANICAL RESEARCH AND DESIGN

Jul 2009 – Present | Carrollton, TX

- Oversee complete mechanical product design cycles of more than 20 projects with a focus on geophysical exploration recording systems and equipment, undersea solutions, industrial manufacturing, and high volume manufacturing.
- Implement and maintain company drafting and part numbering standards
- Travel overseas to train others to use the SolidWorks software suite
- Diagnosed and repaired all damaged Data Taxis for two years before writing repair documentation and training an off-site facility to take over the repairs
- Administrate SolidWorks Enterprise PDM, as well as other IT business services
- Design and maintain three websites including Vercét's primary web presence.
- Use SolidCam and write g-code to manufacture parts, fixtures, and tooling on a Haas VM3 mill with 5th Axis and multi-spindle TL-15 Lathe
- Write software that interfaces with a laser engraver for automated marking

DRS TECHNOLOGIES | COOP MECHANICAL ENGINEERING

Jan 2009 – May 2009 | Richardson, TX

- Design mechanical systems used in the automated manufacturing process of infrared sensors
- Learn and use Pro/ENGINEER Wildfire 4.0 in conjunction with TeamCenter
- Adhere to strict military standards and specifications for all parts of design
- Create GD&T part drawings and files for manufacturing

HANSON ROBOTICS | ROBOT ENGINEER

Apr 2007 – Sep 2008 | Richardson, TX

- Key responsibilities include electrical and mechanical design and manufacturing of the Robo-Kind and Human-Kind product lines.
- Utilize Solidworks to design, build, and evaluate mechanical systems.
- Developed and implemented the electronic architecture of the Zeno robot
- Travel and present at trade-shows and conferences such as NextFest and AAAI
- Collect data, prepare, and publish datasheets on robot specifications such as power consumption, sound output, and proprietary material properties
- Installed Zeno exhibit at Museum of Science and Industry; trained employees to use several of the robots' mechanical systems safely and effectively
- Co-Published a paper titled "Zeno: a Cognitive Character" at AAAI-08 Chicago

BATTLEBOTS | ACHIEVED TEAM CAPTAIN AND DRIVER

Aug 2004 – Present | Richardson, TX

- Competed in BattleBots and BotsIQ competitions with The Blender, a 120lb combat robot awarded 1st place in 2007, 2009, and 2011
- In 2008 formed the UTDallas combat robot team who continue to compete
- Currently building a team and designing a robot to compete in BattleBots 2016