



## BUILD-A-BOT

Use **3DEXPERIENCE SOLIDWORKS for Makers** to bring your next competition robot to life!

When he's not busting IT vulnerabilities, Chicago-based information security professional **Brian Adamson** is designing, building, and competing in *BattleBots* events.

His interest began while growing up in Alaska, watching the early 2000s episodes of the show with his brother. "It always seemed like so much fun, and the community of builders was, as it is now, generally very nice and welcoming," he says.

After moving to Illinois and discovering the Central Illinois Robotics Club (CIRC) in Peoria, Adamson decided to get involved in their robot league. "I taught myself CAD, made a ridiculous number of mistakes, was taught by people smarter and more experienced than me, and built my first 3-pound robot," he says. "I even took second place my first year!"

He followed that with a first-place finish in his following year, and embarked on more, and larger, robot builds. His most recent creation, Claw Viper, brought him to the 2021 season of that show that originally inspired him. "I designed that machine, from scratch, using SOLIDWORKS, and it was actually my first large project in SOLIDWORKS," Adamson says. "It's a 250-pound monster with over 50 horsepower — more than 40kW — of drive power alone, it makes over 1,000 foot-pounds of torque at the main lift axle, and it has the additional craziness of a couple hundred pounds of additional magnetic downforce on the chassis to make it possible to get all that power to the ground."

Adamson is now underway on his next entry, opting to use SOLIDWORKS' new low-cost CAD tool for it. "There are a lot of different options out

there for doing design work, and I've been having a great time using **3DEXPERIENCE SOLIDWORKS for Makers** on my latest combat robotics project," he says. "SOLIDWORKS is an incredible tool, and putting it in the hands of hobbyists and makers is tremendous — it offers real, industry-leading software to anyone with a passion for creating, and creates an incredible pipeline for people to make their dreams a reality."

**3DEXPERIENCE SOLIDWORKS for Makers** is now available for anyone doing personal, non-commercial projects. For just US \$99/year or US \$9.99/month you'll get the same intuitive cloud-connected CAD modeling tools that the professionals use, along with:

- Fully online design solutions you can access from any web browser — no download required
- An online community that lets you connect with worldwide makers from fab labs, makerspaces, and influencers, all ready to share their designs, ideas, and expertise
- Access to an expanded professional ecosystem to rapid prototype your parts, or receive engineering services via the **3DEXPERIENCE Marketplace**
- Support to help you get the most out of **3DEXPERIENCE SOLIDWORKS for Makers**

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