

# BRANDON SIDOTI

Mechanical Engineer

734-807-9934  
bsidoti13@gmail.com  
BrandonSidoti.com  
Boston, MA

## TOOLS & SKILLS

Solidworks CAD & CAM	PTC Creo	3D Printing & Rapid Prototyping
AutoDesk Inventor & AutoCAD	CATIA	Confluence
Siemens NX	OnShape	Empower
Fusion 360 CAD & CAM	CNC Machine Tools	Adobe Creative Suite

## EXPERIENCE

- Soft Robotics Inc.** **Mechanical Engineer** 2022 - Present
- Design demonstration and tradeshow cells for industrial and food grade robots to visually explain the machine learning and image processing software of mGripAI. Includes vision, transfer, and tooling systems.
  - Design End of Arm Tooling for custom applications that remain compatible with the mGrip EOAT ecosystem
  - Design 3A and IP68c end of arm tooling for handling delicate and compliant food products
  - Worked directly within a cross disciplinary team on cutting edge machine learning, artificial intelligence, and 3D vision code for fast and accurate pick and place robots
- VEX Robotics** **Product Design & Product Management Engineer** 2016 - 2022
- Designed the world's largest robotics competitions to be accessible, scalable, and affordable for over 2 million students ranging in grade level from Pre-K through University
  - Supervised the entire product life cycle from creation to completion for products and kits inside the VEX IQ, VEX VS, VEX EXP, and VEXpro product lines
- Mubea** **Tooling Engineer** 2015 - 2016
- Worked directly with automotive manufacturers to design and create lightweight drop in replacement body and chassis sheet metal components
  - Conducted rigid-body simulations to optimize material allocation within Tailor Rolled lightweight sheet metal parts to be optimized for load and function
- Federal Mogul & Champion Spark Plug** **Application Engineer** 2014 - 2015
- Analyzed failures of returned products and created customer facing failure analysis reports
  - Created new test fixtures for Advanced Corona Ignition System (ACIS) and spark plug innovations
- Unique Tool and Manufacturing** **Apprentice/Journeyman** 2013 - 2014
- Used machine tools such as vertical mills, lathes, and surface grinders to manufacture parts in-house for sheet metal presses and dies

## NOTABLE ACTIVITIES

- FIRST Robotics Competition** **Competitor & Mentor** 2008 - Present
- Combat Robotics** **Competitor** 2019 - Present

## AWARDS

- Construction Range Toy of the Year** **Winner** 2019
- FIRST Robotics Competition World Championship** **Winner** 2018
- Eagle Scout** **Troop 743** 2014

## EDUCATION

- Kettering University, Class of 2019** **Bachelors of Mechanical Engineering** Flint, MI