

Byron “Tyler” Reasoner

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Education

Georgia Institute of Technology / Candidate for BS in Mechanical Engineering

August 2019 - May 2023 (Expected) / GPA: 4.00 / Atlanta, GA

Relevant Coursework: Dynamics, Thermodynamics, Deformable Bodies, Statics, Computing Techniques, Computing for Engineers, Engineering Graphics, Engineering Materials

Skills

Certifications: Solidworks (CSWA), Adobe Illustrator, Adobe Photoshop

Programs: Autodesk Inventor, Word, PowerPoint, Excel, Outlook, Adobe After Effects, Adobe Premiere Pro

Skills: MATLAB, Java, 3D CAD, Parametric Modeling, ANSI Dimensioning, Design Reviews, Product Renderings, Manual Drafting, Data Analysis, Graphic Design

Tools: CNC Router, CNC Mill, CNC Plasma Cutter, Waterjet, 3D Printer, Laser Cutter, Power Tools, Band Saw, Drill Press, MIG Welding, Soldering, Vinyl Cutter, Calipers

Extracurriculars: RoboJackets: RoboRacing (Mechanical Subteam), Invention Studio, Club Baseball

Projects

“Rigatoni” Autonomous Go-Kart Steering / August 2019 - Ongoing

Worked as a team to design and manufacture a system to steer an autonomous go-kart using a stepper motor. Through a series of design reviews and iterations, the final design includes a “clutch system” via an idler gear on a timing belt. Fabrication and assembly onto the kart are currently progressing

3D Printed Model Car / September - November 2019

Modeled and printed a mini 2008 Honda Civic utilizing an SLS 3D Printer and snap-fits utilizing tolerancing

Bookend Project / January - May 2017

Designed and fabricated a pair of bookends using Solidworks, lumber, a chop saw, a table router, carbon steel sheet metal, CNC Plasma cutter, and a MIG welder (tinyurl.com/bookend-proj)

Experience

Royal Palm Terrace Apartments / Maintenance Technician

April - July 2020 & July - August 2019 / Bradenton, FL

Fulfilled maintenance requests at the direction of the maintenance supervisor

Leadership

Prototyping Instructor (PI) at Flowers Invention Studio Makerspace / Atlanta, GA 2020 - Present

Trained and assisted Georgia Tech students/professors in using various prototyping equipment

Coordinator for graphics & live-streaming at First Presbyterian Church / Sarasota, FL 2015 - 2019

Oversaw the implementation of a new streaming platform and its weekly operation, including training

Sergeant-at-Arms and Vice-President of Technology Student Association / Bradenton, FL 2017 - 2019

Organized project deadlines, ran meetings, planned awards banquet, maintained attendance records

Captain of the Varsity Baseball & Co-Captain of the Varsity Swim Team / Bradenton, FL 2018 - 2019

Led team in stretches, chants, and other motivational and supportive roles