

Tynan Purdy

Industrial Designer

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Education

Georgia Institute of Technology

BS Industrial Design Class of 2023 - GPA 3.8

Projects

Historic Hunter Hills Neighborhood Branding

- Created a brand book for the community
- Researched residents by interviews, walk-arounds
- Designed brand elements from brand imperatives

Accessible Zipline Harness

- Designed for children with physical impairment
- Conducted need finding user research
- Rapid-prototyped in TOM GT make-a-thon
- Winning make-a-thon design

Origami Lamp

- Hand turned stem on wood lathe
- Laser cut origami waterbomb pattern lampshade
- Designed adjustable color temp and brightness
- Programmed Arduino, sensor input and LED output

Desk Riser for Game Streamers

- Interviewed users for need finding research
- Identified unmet need for equipment storage
- Designed flatpack furniture desk add-on

Experience

Design Bloc

Fall 2020 - Present — Designer - Wayne Li

- Instruct students/faculty in design thinking workshops
- Deliver design thinking course content
- Design for community client projects

Interactive Product Design Lab

Fall 2021 - Present — Lab Mentor - Noah Posner

- Guide students to use the resources in the lab
- Facilitate interactive product skills workshops
- Lead open-lab lecture events on tech and design

Skills

Industrial Design

- Design Thinking
- Branding
- CNC Manufacturing
- CAD
- Laser Cutting
- Woodwork
- Information Architecture
- Systems Design
- Interaction
- Origami Engineering

Software

- Adobe Illustrator
- Adobe InDesign
- Adobe Premiere Pro
- KeyShot
- Premiere Pro
- SolidWorks
- Fusion 360
- Onshape
- Zotero

Programming

- Python
- Java
- Arduino
- LaTeX
- HTML & CSS

Communication

- Project Management
- Project Documentation
- Presentation
- Sketching
- Rapid Prototyping
- Video Production
- Print and Web Media

Research

CodeCraft Group

Fall 2021 — Research Assistant - Dr. HyunJoo Oh

- Develop applications for new kirigami prototyping technique
- Rapid prototype with laser cut materials
- Document experimentation in peer reviewed paper

SimTigrate Design Lab

Fall 2019 — Research Assistant - Dr. Craig Zimring

- Assisted the lab in transitioning to a larger team structure
- Designed the lab's IT infrastructure: communication, tasks, and storage
- Conducted user research on the faculty members and student employees
- Evaluated options for available tools
- Produced a design for a complete system workflow

Georgia Tech Research Institute CIPHER TMPO

Fall 2021 - Present — Research Assistant - Dr. Mike Ruiz

- Prototyped pressure-sensitive piezoelectric floor tiles
- Collaborated with undergraduate and HS students
- Developed tiles from 1 tile prototype to a fully functioning grid

Georgia Tech Research Institute ATAS FPTD

Fall 2021 - Present — Research Assistant - Dr. Ai-Ping Hu

- Detected blueberry ripeness with NIR spectroscopy
- Improved the custom sensor performance to 80+% confidence
- Miniaturized the device by ~150%

Leadership

FIRST Robotics Competition

Fall 2015 - Spring 2019 — CEO

- Captained Fernbank LINKS in marketing, engineering, communication, and operations
- Managed team marketing: video production, social media posts, conference tabling
- Competed in the FIRST Robotics Competition as team 4468
- Traveled to state and world championship all 4 years
- Earned Engineering Inspiration and Chairman's awards for STEM education outreach