Ethan Schneider

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY PhD in Robotics
Aug 2022 - Present | Atlanta, GA
3.90 GPA

KENNESAW STATE UNIVERSITY BS in Mechatronics Engineering
Aug 2018 - Aug 2022 | Kennesaw, GA
4.0 GPA summa cum laude with Honors

EXPERIENCE

GEORGIA TECH RESEARCH INSTITUTE | ELSYS Division | Co-Op Software Engineer
Jan 2021 - Aug 2022 | Atlanta, GA

Responsible for designing, coding, and testing of Windows and embedded software for aircraft systems and aircraft protection systems test applications.

- Developed C# .NET 6.0 Framework radar and aircraft system simulator applications for customers and learned both WPF and MVVM architecture for developing graphical user interfaces.
- Assisted in fixing maintaining, and installing Minikube Docker container for working and building with LaTeX documentation.

FREEDOM ELECTRONICS | Electrical Engineering Intern
Sep 2020 – Dec 2020 | Kennesaw, GA

Analyzed and designed circuits and simulations using EAGLE and Microsoft Visio and designed test procedures for PCBs

- Wrote several test-procedure documents for workers to analyze PCBs, which allowed new types of boards to be worked on.
- Fixed several test apparatuses involving electronics and embedded systems.

SOLAR VEHICLE TEAM | Vice President and CS Team Lead
Aug 2019 - Aug 2022 | Marietta, GA

Competition team involving the design, manufacturing, and racing of solar powered vehicles in competitions around the world.

- Assisted SVT President in project management, organizing sub-teams, fund management, and maintaining lab safety.
- Worked with the CS Team on programming the ORION BMS 2, SEVCON Motor Controller, and a micro controller with CANBUS communication for Solar Car operation, data collection, and data display to the driver using a Python GUI.

ISRA SURFACE VISION | Software Engineering Intern
June 2019 – August 2019 | Duluth, GA

Developed back-end software and Windows embedded cameras used for assembly line defect detection.

- Developed and implemented VB.net and C++ software for customer data analytics, SQL client, and OPC server and client.
- Configured, calibrated, and tested line scan embedded cameras with embedded windows for product inspection.

RESEARCH EXPERIENCE

EXPLAINABLE AI (XAI) FOR HETEROGENEOUS MULTI-AGENT SYSTEMS
Jan 2023 - Current | Atlanta, GA

Developing systematized characterization of explanation types for heterogeneous team task allocation and scheduling, implementing a novel contrastive explanation interface, and pilot study to verify validity of these methods.

FESTO MANUFACTURING SYSTEM DIGITAL TWINS
May 2022 - Aug 2022 | Marietta, GA

Worked with Dr. Guerra-Zubiaga on implementing a Digital Twins framework for a FESTO Manufacturing System (FMS) with Tecnomatix Siemens Software for a senior design project in collaboration with two other students at Kennesaw State University.

MEDICAL IMAGING RESEARCH
Nov 2021 - Aug 2022 | Marietta, GA

Student Assistant and Undergraduate Researcher for Dr. Coskun Tekes and worked alongside Degertekin Research Group at Georgia Tech to develop a Python front and back-end for variable power supply control, sensor reading, and Scan Conversion algorithm for Intravascular Ultrasound (IVUS) medical imaging technology.

AWARDS AND CERTIFICATES

- Outstanding Undergraduate Research Award from Kennesaw State University