Samuel Todd Flanagan

toddflan.github.io toddflanagan.web@gmail.com **OBJECTIVE** Seeking employment in autonomous vehicles, data science, or related fields **EDUCATION** Texas A&M University | College Station, TX MS | Computer Engineering BS | Electrical Engineering Research | Autonomous Vehicle Localization Minors | Computer Science, Mathematics GPA | 3.857 GPA | 4.0 May 2021 May 2018 **PUBLICATIONS Enhanced Normalized Mutual Information for Localization in Noisy Environments IEEE ASPCON 2020** S. T. Flanagan, D. K. Khublani, J.-F. Chamberland, S. Agarwal, A. Vora Applied signal processing techniques to improve localization, especially in harsh conditions Supported by Ford Autonomous Vehicles LLC **Localization in Autonomous Vehicles Using a Generalized Inner Product IEEE GlobalSIP 2019** S. T. Flanagan, D. K. Khublani, J.-F. Chamberland, S. Agarwal, A. Vora **COURSES** Vector Space Methods **Applied Data Science Convex Optimization** Al Tech. and Apps. **SKILLS** C# Python C++, C Linux **EXPERIENCE** Texas A&M University | College Station, TX Jan. 2019 - Present Research Assistant (Spring 2019), Graduate Student Worker Proposed novel improvements to localization algorithms Developed a noise model for image acquisition in autonomous vehicles Wrote numerical simulations in Python to evaluate algorithmic improvements Tanknology Inc. | Austin, TX July - Nov. 2018 Product Development Engineer Developed audio-based leak detection software for the VacuTect® system Built a Universal Windows Platform application in C# **United States Department of Defense** May - Aug. 2017 Splunk Developer (TS SCI Clearance) Promoted data-driven decision making through the creation of effective Splunk dashboards Created multiple CSS files allowing developers to quickly improve dashboard design musx | Austin, TX June - Aug. 2016 Product Development Intern Learned cross-platform mobile development in JavaScript using React Native Developed a comprehensive mobile application beta test strategy L-3 Communications | Greenville, TX May - Dec. 2015 Electrical Engineering Co-op (S Clearance) Designed, fabricated, and installed instrumentation testing systems Contributed to electrical design of aerospace mission systems National Instruments | Austin, TX June - Aug. 2014 Test Engineering Intern Updated production testing software for three adapter modules **ACTIVITIES IBM Senior Assistant (EE Capstone Project)** | Java, C++, Python Fall 2017 - Spring 2018 Small companion robot designed to keep the elderly safe Fall detection, Android app, TCP, Bluetooth, medication reminders

Texas A&M Climbing Team | USAC Collegiate Climbing Series

Eagle Scout | Boy Scouts of America

President (2019-20), 2019 Overall Regional Team Champions

Feb. 2016 – Present

Oct. 2013