Samuel Todd Flanagan

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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
Dec. 2020	May 2018

PUBLICATIONS

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

- Applied signal processing techniques to improve localization, especially in harsh conditions
- Supported by Ford Motor Company

COURSES

Vector Space Methods	Applied Info. Science	Convex Optimization	AI Tech. and Apps.

SKILLS

Python	C++, 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   Feb. 2016 – Present

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

Eagle Scout | Boy Scouts of America   Oct. 2013