

Gregory Anders

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Education

University of Texas
M.S. Aerospace Engineering

Austin, TX
Aug 2016 — Dec 2017

- GPA: 3.780
- Controls, Autonomy, and Robotics Group
- Thrust 2000 Fellowship Recipient

Texas A&M University
B.S. Electrical Engineering

College Station, TX
Aug 2010 — Dec 2014

- Magna cum Laude
- Cumulative GPA: 3.768

Experience

Sandia National Laboratories
Electrical Engineer, Emerging Flight Technologies Group

Albuquerque, NM
Jan 2018 — Present

- Embedded Systems Design
Design and implementation of embedded systems on Xilinx FPGAs and SoC chips for space-based intelligence and research missions. Designs were implemented in VHDL, C/C++, and Python in both bare-metal and Linux based environments.
- Autonomous Sensor Networks
Designed autonomous target recognition and tracking algorithms for distributed multi-sensor, multi-target platforms.

Radionavigation Lab at the University of Texas
Research and Teaching Assistant

Austin, TX
Aug 2016 — Dec 2017

- Aerial Robotics
Led a team in developing novel research in the field of autonomous map-making and aerial navigation of micro unmanned aerial vehicles (UAVs). Our work sought to create high-resolution, three-dimensional, digital maps for use in a variety of applications such as autonomous navigation and virtual/augmented reality.
- Satellite Navigation
GNSS systems, specifically GPS. Position and velocity estimation using non-linear pseudorange based algorithms. GNSS digital processing, including creating a rudimentary software-defined GPS receiver from scratch in MATLAB.

- Statistical Estimation

Estimation and tracking algorithms, including batch least squares, linear and extended Kalman filters, sigma point filters, particle filters, etc.

Credera
Technology Consultant

Dallas, TX
Jan 2015 — Jul 2016

- Full Stack Web Development

Designed and implemented new features for client’s public facing website. The feature set involved the full stack of web software development, including: managing Apache web server instances, interfacing with DevOps tools such as Jenkins, creating and modifying Oracle SQL tables, writing new Java microservice backends, and designing front-end web pages with HTML, CSS, and Javascript.

- Credera Cup

Gamified recruiting tool written in Go, Ruby, and Angular JS. Potential recruits use a web-based socket API to compete in race-themed programming challenges.

Skills

C	C++	Python
Go	Rust	Tcl
Linux System Administration	Linux Device Drivers	Docker
Shell Scripting	VHDL	Xilinx FPGA Toolchain
Embedded Linux	Statistical Estimation	Target Tracking

Additional Information

Security clearances: DOE Q (Top Secret), SCI