ZACHARIAS KOMODROMOS

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EXPERIENCE

Graduate Research Assistant

University of Texas at Austin

Fall 2021 – Present

Austin, Texas

- Member of WNCG Radionavigation Laboratory run by Prof. Todd Humphreys
- Research in game-theory for Pursuit-Evasion scenario
- Research in opportunistic PNT from Starlink Satellites
- Teaching assistant for Aerial Robotics class ASE 479W

Design Engineer Intern

Garmin

Summer 2021

Olathe, Kansas

- Used Cadstar for schematic revision and PCB design
- Designed PCB for new feature testing (capacitive touch features)
- Designed PCB for High-speed (USB 3.2) testing

Teaching Assistant/Tutor

Iowa State University

Fall 2019 – Spring 2021

Ames, Iowa

- Teaching assistant for EE330 Integrated Circuits during Fall 2020 and Spring 2021, under Dr. Randall L. Geiger and Dr. Degang Chen.
- Led lab sections, constructed and graded homework and labs
- Tutor for Academic Success Center for EE201 and EE230 Circuit analysis classes

Electrical Engineering Intern

Cemen Tech Inc

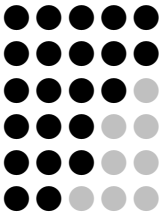
Summer 2020

Indianola, Iowa

- Updated schematics in CAD and assemblies in SolidWorks
- Designed, tested, and released new winter-oriented features
- Revised and processed a PCB Board for manufacturing

SKILLS

C, C++
Matlab
Bash Scripting/Linux
Python
Java
Altium Designer, Cadstar



EDUCATION

MSc and PhD track

University of Texas at Austin

Fall 2021 – Present

BSc Electrical Engineering
Minor in Computer Science

Iowa State University

Fall 2017– Spring 2021

- Summa Cum Laudem with Honors
- Communications track

PAPERS

Related Work

- T.E. Humphreys P. A. Iannucci, Z. M. Komodromos and A. M. Graff (Under Review). “Signal Structure of the Starlink Ku-Band Downlink”. In: *IEEE Transactions on Aerospace and Electronic Systems*.
- Z. M. Komodromos N.G. Montalbano, T.E. Humphreys (2022). *Quasi-Nash Optimal Algorithm for Reach and Avoid Differential Game*. Tech. rep. UT Austin, Radionavigation Laboratory.

INTERESTS

- Low Earth Orbit (LEO) Communications
- Digital Communications
- Position, Navigation and Timing
- Estimation