

Adjunct Assistant Professor, Department of Electrical and Computer Engineering, Ohio University, Athens, Ohio, July 1993 to December 1993.

Visiting Scientist, Delft University of Technology, Delft, The Netherlands. December 1992 to May 1993.

Research Engineer, Avionics Engineering Center, Ohio University, Athens, Ohio. December 1989 to June 1993.

Graduate Fellow, Avionics Engineering Center, Ohio University, Athens, Ohio. June 1988 to November 1989.

Undergraduate Intern, Avionics Engineering Center, Ohio University, Athens, Ohio, September 1985 to June 1988.

Academic Specialization:

Antenna Theory
Communications and Digital Signal Processing
Electromagnetic Theory

Professional Specialization:

Electronic Navigation Receiver Design
Electronic Navigation System Engineering
Inertial Navigation Systems (INS)
Integrated Navigation Systems
Satellite-Based Navigation Systems with emphasis in GPS
Unmanned Aerial Vehicle (UAV) navigation and safety considerations

Honors:

First runner-up for Best Presentation at the 2nd International Meeting of the Satellite Division of the Institute of Navigation, September 1989.

1992 RTCA William E. Jackson Award (an international award given in recognition of an outstanding publication on aviation electronics).

1997 Ohio University EECS Outstanding Graduate Faculty Award.

1997-98 Ohio University EECS School Research Award.

1997-98 Ohio University Russ Engineering College Outstanding Research Paper Award.

2009 Selected as Fellow of the U.S. Institute of Navigation

2016 Best-of-Session Paper at the Digital Avionics Systems Conference for “Flight-Test Evaluation of Small Form-Factor LiDAR and Radar Sensors for sUAS Detect-and-Avoid Applications,” co-authored with M. Uijt de Haag and C. Bartone.

2019 – present: IEEE Aerospace and Electronic Systems Society Distinguished Lecturer

Professional Memberships:

Member, Institute of Electrical and Electronics Engineers (Senior Member)

Member, Institute of Navigation (Fellow)

Member, Tau Beta Pi

Research Grants and Contracts:

U.S. Department of Transportation (DOT) Volpe National Transportation Systems Center (VNTSC), “DME/P Signal Model Development and Integration with Refined Angle Signal Model,” \$81,000, 1990-92, Principal Investigator: R. Lilley (project was conducted entirely by M. Braasch).

U.S. DOT Federal Aviation Administration (FAA) and National Aeronautics and Space Administration (NASA), “Integrated Avionics Technology Development: Joint University Program in Air Transportation Research,” \$110,000, 1990-91, Principal Investigator: R. Lilley (grant was managed by M. Braasch).

U.S. DOT VNTSC, “Satellite-Based System Precision Approach Issues,” \$264,997, 1991-92, Principal Investigator: F. Van Graas (responsibility for this contract was shared with M. Braasch and T. Skidmore).

U.S. DOT FAA and NASA, “Integrated Avionics Technology Development: Joint University Program in Air Transportation Research,” \$75,320, 1991-92, Principal Investigator: R. Lilley (grant was managed by M. Braasch).

U.S. DOT FAA and NASA, “Joint University Program for Air Transportation Research,” \$75,989, 1993-94, Principal Investigator: R. Lilley (grant was managed by M. Braasch).

Boeing Commercial Airplane Company, “D/GPS Signal Model Enhancement and Validation,” \$48,682, 1994-1995, Principal Investigator: M. Braasch.

Mayflower Communications/U.S. Air Force/Wright Lab, “Multipath Mitigation

Investigations to Support Enhanced GPS,” \$35,000, 1995, Principal Investigator: M. Braasch.

U.S. DOT FAA and NASA, “Integrated Avionics Technology Development: Joint University Program in Air Transportation Research,” \$149,999, 1995-98, Principal Investigator: R. Lilley, co-PI: M. Braasch.

Air Force Office of Scientific Research/Wright Lab, “L1-Band Receivers: Design, Simulation and Implementation,” \$50,000, 1995-1996, Principal Investigator: M. Braasch.

Honeywell, Inc., “Inertial Navigation - GPS/DGPS Studies,” \$15,000, 1995, Principal Investigator: M. Braasch.

Boeing Commercial Airplane Company, “D/GPS Signal Model Enhancement and Validation in Support of GNSS Investigations,” \$99,945, 1996, Principal Investigator: M. Braasch.

Air Force Office of Scientific Research/Wright Lab, “L1-Band Receivers: Design, Simulation and Implementation,” \$50,000, 1996-1997, Principal Investigator: M. Braasch.

Honeywell, Inc., “Inertial Navigation - GPS/DGPS Studies,” \$80,000, 1996, Principal Investigator: M. Braasch.

Boeing Commercial Airplane Company, “D/GPS Signal Model Enhancement and Validation in Support of GNSS Investigations - Year Two,” \$171,493, 1997, Principal Investigator: M. Braasch.

Honeywell, Inc., “Inertial Navigation - GPS/DGPS Studies,” \$80,000, 1997, Principal Investigator: M. Braasch.

Air Force Office of Scientific Research/Wright Lab, “L1-Band Receivers: Design, Simulation and Implementation,” \$135,000, 1997-1998, Principal Investigator: M. Braasch, Co-PI: J. Dill.

Megapulse, “Development and Testing of Antenna and Receiver Components Related to Navigation Using Loran-C and GPS,” \$49,000, 1997-1998, Principal Investigator: R. Lilley, co-PI: M. Braasch.

U.S. DOT FAA and NASA, “Integrated Avionics Technology Development: Joint University Program for Air Transportation Research,” \$100,000, 1998-99, Principal Investigator: J. Rankin, co-PI: M. Braasch.

Rockwell-Collins, “Multipath Mitigation Studies,” \$50,000, 1998, Principal

Investigator: M. Braasch.

Honeywell, Inc., "Inertial Navigation - GPS/DGPS Studies," \$80,000, 1998,
Principal Investigator: M. Braasch.

Boeing Commercial Airplane Group, "GPS Implementation Issues," \$125,255,
1999, Principal Investigator: M. Braasch.

Air Force Office of Scientific Research/Wright Lab, "L1-Band Receivers: Design,
Simulation and Implementation," \$50,000, 1998-1999, Principal Investigator: M.
Braasch.

U.S. DOT FAA and NASA, "Joint University Program for Air Transportation
Research," \$107,000, 1999-2000, Principal Investigator: J. Rankin, co-PI: M.
Braasch.

Honeywell, Inc., "Inertial Navigation - GPS/DGPS Studies," \$80,000, 1999,
Principal Investigator: M. Braasch.

Boeing Commercial Airplane Group, "GPS/INS Integration and VHF Data
Broadcast Studies," \$160,000, 2000, Principal Investigator: M. Braasch.

Air Force Office of Scientific Research/Wright Lab, "L1-Band Receivers: Design,
Simulation and Implementation," \$50,000, 1999-2000, Principal Investigator: M.
Braasch.

U.S. DOT FAA and NASA, "Integrated Avionics Technology Development: Joint
University Program for Air Transportation Research," \$107,000, 2000-2001,
Principal Investigator: J. Rankin, co-PI: M. Braasch.

Honeywell, Inc., "Inertial Navigation - GPS/DGPS Studies," \$40,000, 2000,
Principal Investigator: M. Braasch.

SAIC, "AGNS Test Station Architecture Design," \$60,000, 2000-2001, Principal
Investigator: M. Braasch.

Air Force Office of Scientific Research/Wright Lab, "L1-Band Receivers: Design,
Simulation and Implementation," \$50,000, 2001, Principal Investigator: M.
Braasch.

U.S. DOT FAA and NASA, "Joint University Program for Air Transportation
Research," \$126,666, 2001-2002, Principal Investigator: J. Rankin, co-PI: M.
Braasch.

Boeing Commercial Airplane Group, "GPS/INS Integration, VHF Data Broadcast

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.