



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

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