

Mr. Carlos Javon Smith
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Assistant Professor
Aerospace
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Education

Master of Science, Middle Tennessee State Univ, 2015.
Major: Aviation Administration

Bachelor of Science, Tennessee State University, 2004.
Major: Aeronautical/Aerospace Engr Tch

Academic, Government, Military and Professional Positions

Assistant Professor, Middle Tennessee State University, Aerospace Department. (August 2017 - Present).

Full-Time Temporary Faculty, Middle Tennessee State University, Aerospace Department. (August 2016 - July 2017).

Emergency-Hire Faculty, Middle Tennessee State University, Aerospace Department. (August 1, 2015 - July 2016).

Aviation Maintenance Teacher, McGavock High School, Metro Public Schools, Aviation Academy. (August 2010 - August 2015).

Associate Instructor, Tennessee College of Applied Technology, Nashville, Aviation Maintenance. (June 2006 - August 2011).

A&P Mechanic, Embraer Aircraft Maintenance Services, Aviation Maintenance. (February 2006 - June 2006).

Shift Supervisor/ Line Service Technician, Corporate Flight Management, Aerospace Department. (June 2004 - February 2006).

Licensures and Certifications

Factory Training Certification, Continental Aerospace Technologies. (November 21, 2019 - Present).

Factory Training Certification, Lycoming Engine Service School. (November 3, 2018 - Present).

Marine Radio Operator Permit, FCC. (August 11, 2009 - Present).

Airframe & Powerplant Certification, FAA. (February 19, 2006 - Present).

Professional Memberships

International Symposium on Aviation Psychology. (2019 - Present).

University Aviation Association. (2019 - Present).

Aviation Technicians Education Council. (2017 - Present).

Aviation Maintenance Council. (2016 - Present).

Tennessee State University (TSU) Advisory Board of the Aeronautical Industrial Technology (AIT) Department. (2013 - Present).

McGavock High School Advisory Board of the Aviation and Transportation Academy. (2007 - Present).

SkillsUSA. (2007 - Present).

Development Activities Attended

Conference Attendance, "ATEC Annual Conference," Aviation Technician Education Council. (September 14, 2020 - September 18, 2020).

Self-Study Program, "Remote Instruction Course." (July 2020).

Program, "Grant Writing Enhancement Program," MTSU Office of Research, Murfreesboro, TN, United States of America. (September 2017 - May 2019).

TEACHING

Teaching Experience

AERO 4311, section 002, Aero Access Syst Maint Repair. 3 credit hours. 18 enrolled.

AERO 4310, section 001, Aerospace Vehicle Systems. 3 credit hours. 85 enrolled.

AERO 4332, section 002, Reciprocating Eng Troubleshoot. 3 credit hours. 12 enrolled.

AERO 4340, section 001, Maintenance Mgmt Capstone. 3 credit hours. 11 enrolled.

AERO 2342, section 001, Powerplant Inspection. 3 credit hours. 19 enrolled.

AERO 3392, section 001, Reciprocating Eng Maint Repair. 3 credit hours. 18 enrolled.

AERO 4311, section 002, Aero Access Syst Maint Repair. 3 credit hours. 21 enrolled.

AERO 4310, section 001, Aerospace Vehicle Systems. 3 credit hours. 60 enrolled.

AERO 4340, section 001, Maintenance Mgmt Capstone. 3 credit hours. 10 enrolled.

AERO 4332, section 002, Reciprocating Eng Troubleshoot. 3 credit hours. 23 enrolled.

AERO 4340, section 001, Maintenance Mgmt Capstone. 3 credit hours. 7 enrolled.

AERO 2342, section 001, Powerplant Inspection. 3 credit hours. 15 enrolled.

AERO 3392, section 001, Reciprocating Eng Maint Repair. 3 credit hours. 24 enrolled.

AERO 4311, section 002, Aero Access Syst Maint Repair. 3 credit hours. 18 enrolled.

AERO 4310, section 001, Aerospace Vehicle Systems. 3 credit hours. 60 enrolled.

AERO 2342, section 001, Powerplant Inspection. 3 credit hours. 13 enrolled.

AERO 4340, section 001, Maintenance Mgmt Capstone. 3 credit hours. 8 enrolled.

AERO 2342, section 001, Powerplant Inspection. 3 credit hours. 20 enrolled.

AERO 3392, section 001, Reciprocating Eng Maint Repair. 3 credit hours. 17 enrolled.

AERO 3030, section 001, Propulsion Fundamentals. 3 credit hours. 11 enrolled.

AERO 4311, section 001, Aero Access Syst Maint Repair. 3 credit hours. 12 enrolled.

AERO 4310, section 001, Aerospace Vehicle Systems. 3 credit hours. 59 enrolled.

AERO 4332, section 002, Reciprocating Eng Troubleshoot. 3 credit hours. 19 enrolled.

AERO 4310, section 001, Aerospace Vehicle Systems. 3 credit hours. 20 enrolled.

AERO 1340, section 001, Intro to Aerospace Maintenance. 3 credit hours. 17 enrolled.

AERO 3392, section 001, Reciprocating Eng Maint Repair. 3 credit hours. 17 enrolled.

AERO 4371, section 001, Adv Vehicle Systems Overhaul. 3 credit hours. 18 enrolled.

AERO 4311, section 001, Aero Access Syst Maint Repair. 3 credit hours. 18 enrolled.
AERO 4340, section 001, Maintenance Mgmt Capstone. 3 credit hours. 12 enrolled.
AERO 4332, section 001, Reciprocating Eng Troubleshoot. 3 credit hours. 15 enrolled.
AERO 4381, section 001, Adv Access System Maint Repair. 3 credit hours. 17 enrolled.
AERO 4340, section 001, Maintenance Mgmt Capstone. 3 credit hours. 6 enrolled.
AERO 2342, section 001, Powerplant Inspection. 3 credit hours. 20 enrolled.
AERO 3392, section 001, Reciprocating Eng Maint Repair. 3 credit hours. 18 enrolled.
AERO 4371, section 001, Adv Vehicle Systems Overhaul. 3 credit hours. 18 enrolled.
AERO 4311, section 001, Aero Access Syst Maint Repair. 3 credit hours. 17 enrolled.
AERO 4340, section 001, Maintenance Mgmt Capstone. 3 credit hours. 14 enrolled.
AERO 4332, section 001, Reciprocating Eng Troubleshoot. 3 credit hours. 16 enrolled.
AERO 4381, section 001, Adv Access System Maint Repair. 3 credit hours. 12 enrolled.
AERO 1340, section 001, Intro to Aerospace Maintenance. 3 credit hours. 16 enrolled.
AERO 2342, section 001, Powerplant Inspection. 3 credit hours. 19 enrolled.
AERO 3392, section 001, Reciprocating Eng Maint Repair. 3 credit hours. 18 enrolled.

Awards and Honors

Faculty That Make a Difference, Division of Student Affairs. (December 2020).
Nida Aviation Maintenance Training System, Choose Aerospace. (November 2020).
Faculty That Make a Difference, Division of Student Affairs. (September 12, 2017).
Faculty That Make a Difference, Division of Student Affairs. (June 2, 2016).

RESEARCH

Published Intellectual Contributions

Smith, C.J. 2019. ARE WE TRAINING FOR TESTING OR TRAINING FOR INDUSTRY. *ATEC Journal*. 41, 1 (May 2019), 27-31.
Beckman, W.S. et al. COLLEGIATE PROGRAM SAFETY CULTURE SURVEY – A COMPARISON OF DISCIPLINES. *International Symposium on Aviation Psychology* pp. 127-132.

Presentations Given

Smith, C. J., Aviation Technician Education Council (ATEC) Annual Conference, "Maintenance Management Safety Culture Improvement Efforts," American Airlines and Lockheed Martin, The Worthington Renaissance Fort Worth Hotel, Fort Worth, TX. (March 30, 2020).
Beckman, W. S., Corns, K. M., Smith, C. J., University Aviation Association, "Safety Culture Improvement Efforts Across Collegiate Aviation Disciplines," Memphis, TN. (October 3, 2019).
Siao, D. H., Smith, C. J. (Presenter), Corns, K. M., International Symposium on Aviation Psychology ISAP, "COLLEGIATE PROGRAM SAFETY CULTURE SURVEY – A COMPARISON OF DISCIPLINES," International Symposium on Aviation Psychology, Dayton, OH. (May 8, 2019).

Contracts, Grants and Sponsored Research

Smith, C. J. (Principal), Beckman, W. S. (Co-Principal), Hawkins, J. C. (Supporting), Siao, D. H. (Supporting), "Aviation Workforce Development Grant," Sponsored by FAA, Federal, \$500,000.00.

Smith, C. J., Hawkins, J. C., Siao, D. H., "Technology Access Fees (TAF) Grant," Middle Tennessee State University, \$198,119.00.

Smith, C. J., "Technology Access Fees (TAF) Grant," Middle Tennessee State University, \$196,637.00.

Smith, C. J., "Instructional Enhancement Grant," Sponsored by Middle Tennessee State University, Middle Tennessee State University, \$267.50.

Smith, C. J., "Travel Grant," Sponsored by Middle Tennessee State University, Middle Tennessee State University, \$827.15.

Smith, C. J., "Instructional Enhancement Grant," Sponsored by Middle Tennessee State University, Middle Tennessee State University, \$787.50.

Smith, C. J., "Travel Grant," Sponsored by Middle Tennessee State University, Middle Tennessee State University, \$1,400.00.

Smith, C. J., "Boeing Flight Services 787 Course Scholarship," Sponsored by Northrop Rice Foundation Administered Awards and Scholarships, Other, \$10,000.00.

Smith, C. J., "Boeing Flight Services 787 Course Scholarship," Sponsored by Northrop Rice Foundation Administered Awards and Scholarships, Other, \$10,000.00.

Smith, C. J., "Hank Hilsman Memorial Scholarship," Sponsored by National Business Aviation Association (NBAA) Scholarship, \$10,000.00.

Smith, C. J., "Maintenance Technical Reward and Career Scholarship (TRACS)," Sponsored by National Business Aviation Association (NBAA) Scholarship, \$8,000.00.

Intellectual Contributions in Submission

Beckman, W. S.; Siao, D. H.; Smith, C. J.; Corns, K. M. COLLEGIATE PROGRAM SAFETY CULTURE SURVEY – a COMPARISON of DISCIPLINES. In *International Symposium on Aviation Psychology*; International Symposium on Aviation Psychology; p pp. 127–pp. 132.

Research Currently in Progress

"Collegiate Program Safety Culture Survey - Maintenance Management" (Planning). (September 2019 - Present).

For the past year and a half I have been working with a group of individuals to identify the safety culture at MTSU between the different disciplines in the Aerospace department. Although each area shared some similarities, it was interesting to see how different the student's observance to safety was in the maintenance program. This research will be an attempt to further understand the safety culture differences in the maintenance program at MTSU.

"New Realities in Aviation Maintenance Training" (In Preparation). (August 2018 - Present).

Over the years, technology has greatly improved. The improvements have been so great, that it is now slowly making its way into aviation maintenance training environments. Although still in the early stages, the use of virtual reality, augmented reality, and a combination of the two are becoming more available. This new age technology can allow for training without costly large aircraft and provide a means for hands-on virtual aided assistance to maintain aircraft.

SERVICE

University Service

Member, Aerospace, Assistant Chief Instructor, Clinical-Track Faculty. (January 2021 - Present).

Member, Building Naming Committee. (August 2020 - Present).

Committee Member, Professional Pilot Search Committee. (September 2019 - Present).

Member, Chair, Department of Aerospace, Tenure-Track Faculty. (August 2019 - Present).

Member, Grade Appeals Committee. (August 2019 - Present).

Committee Member, Administration Classified. (May 2018 - Present).

Committee Member, Aerospace. (August 2019).

Committee Member, Professional Pilot Search Committee. (August 2018 - August 2019).

Committee Member, Scholarship Search Committee. (August 2018 - May 2019).

Committee Member, Aerospace. (August 2018).

Committee Member, Faculty Search Committee. (August 2017 - August 2018).

Committee Member, Flight Training Program. (May 2018).

Professional Service

Reviewer/Referee, Embry-Riddle Aeronautical University Worldwide College of Aeronautics International Journal of Aviation, Aeronautics, and Aerospace (IJAAA). (October 2019 - Present).

University Aviation Association. (October 2019 - Present).

Board of Advisors, McGavock Public High School Academy of Aviation and Transportation, Nashville, TN. (August 2017 - Present).

Board of Advisors, Tennessee State University Advisory Board of the Aeronautical Industrial Technology Department, Nashville, TN. (August 2017 - Present).

Member, Aviation Technicians Education Council (ATEC). (August 2017 - Present).

Interaction with Industry, MRO Americas. (August 2016 - Present).

Advisor, SkillsUSA. (January 2007 - Present).

Public Service

Participant, Aerospace Fall Freshmen Cookout. (2019 - Present).

Team Coach, Aerospace Maintenance Competition. (April 2017 - Present).

Member, Kappa Alpha Psi Fraternity, INC. (March 2004 - Present).

President, Ancient Free and Accepted Masons, TN. (March 2004 - Present).

Volunteer, McGavock High School Academy Showcase Night, Nashville, TN. (2017 - 2018).

Volunteer, McGavock High School Freshman Academy Professional Skills Fair. (2017 - 2018).

Participant, TnBAA Benefit Golf Tournament Scholarship Fund. (September 28, 2017 - 2017).

Volunteer, Metro Public Schools Career Day Fair. (2017).

Volunteer, McGavock High School Track and Field Team Coach. (August 2013 - June 2017).

Judge, SkillsUSA, Chattanooga, TN. (March 2017).

Consulting

Academic, McGavock High School, Nashville, TN. (January 2020 - Present).

Awards and Honors

Avotek Dale Hurst Memorial Scholarship, Choose Aerospace. (November 2020).