# Sophy George

Associate Professor of Instruction
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## A. Education

a. Master of Science, Engineering Management, 2006
New Jersey Institute of Technology, Newark, NJ
b. Bachelor of Science, Biomedical Engineering, 2005
New Jersey Institute of Technology, Newark, NJ

## B. Appointments

a. Associate Professor of Instruction, 2025-present
Texas State University, San Marcos, TX
b. Chair of Mechanical and Industrial Technology, 2020-2022
Tarrant County College, South Campus, Fort Worth, TX
c. Program Coordinator and Instructor of Electronics, 2018- 2025
Tarrant County College, South Campus, Fort Worth, TX
d. Adjunct Instructor of Electronics, 2018
Tarrant County College, South Campus, Fort Worth, TX
e. Adjunct Instructor of Electronics, 2015-2017
Brown Mackie College, Bedford, TX
f. Director of QA and Regulatory 2014-2015
Carroll Company, Garland, TX
g. Quality Engineer, 2012-2014
Osteomed, Addison, TX
h. Quality Control Engineer, 2006-2009
Medtronic, Fort Worth, TX

## C. Awards and Recognition

a. Chancellors Award for Exemplary Teaching, 2023
b. Consortium Leadership And Renewal Academy (CLARA) graduate, 2021-2022
c. Chancellors Award for Exemplary Teaching Nominee, 2020
d. LEAP (Leadership Education for Asian Pacific's) Nominee and Graduate, 2019
e. Student Initiated Faculty Recognition, "The Collegian", 2021
    i. Oliver, A. (2021, April 14). Veteran's center provides beacon of hope on campus. *The Collegian*.
f. College Faculty Nominee for Chair Academy Leadership Conference, 2021

## D. Institutional & Professional Service

a. Industry Advisory Committee Lead and Organizer, 2020/2021/2022/2023/2024
b. TCC representative- Fort Worth Chamber Projects, 2022-2024
c. TCC Robotics and Robotic Arms Sourcing Project, 2021
d. TCC Academic Curriculum Committee Chair, 2018-2025

## E. Industry Certifications and Awards

a. Universal Robots Academy - Certified Universal Robots Instructor, 2025
b. IPC- Qualified IPC Assembly Operator, 2024
c. NC3- Train the Trainer Certificate- Mechatronics, 2021
d. NC3- Train the Trainer Certificate- Robotics, 2019
e. American Society for Quality- Certified Quality Auditor, 2013
f. American Society for Quality- Certified Quality Engineer, 2009

## F. Industry Engagement and Invited Presentations

a. 2022 MSSC's Certified Technician - Supply Chain Automation – TCC Speaker
   i. Delivered technical briefing on automation readiness and student talent pipeline.
b. 2022-2024 TCC representative- Fort Worth Chamber
   i. Served as the college's primary liaison for the Fort Worth Chamber and Economic Development for business recruitment and corporate attraction projects.
c. 2017 American Society of Quality Fort Worth Section 1416 Speaker "When Training is the Root Cause"
d. 2016 MD EXPO Workshop "Resume and Interview Tips and Techniques for Biomed Grads"

## G. Grants, Funding and Institutional Advancement

a. 2021 American Association of Community Colleges (AACC) / National Science Foundation (NSF) **MentorLinks: Advancing Technological Education Grant** *$20,000*
   i. *Co-lead*, National peer-mentorship initiative to design, build, and implement the Biomedical Equipment Technology Program curriculum. Conducted institutional site visits and collaborated with national STEM consultants to optimize a Biomedical Equipment Technology Program

**b. Perkins V Grant Program + Institutional Significant Funds**
   i. Needs Assessment: Conducted market skills analysis to identify critical curriculum gaps and calculated competitive funding requests.
   ii. Asset Procurement: Successfully utilized Perkins V allocations/ Institutional Significant Funds to acquire electronic equipment and industrial automation assets to supplement curriculum.
      1. *$71,850* - 2020
      2. *$80,322* - 2021
      3. *$98,670* - 2022
      4. *$131,255* - 2023
      5. *$171,885* - 2024

## H. Teaching Experience and Courses Taught/Built

***a. Associate Professor of Instruction, Engineering Technology***
Texas State University, San Marcos, TX
   i. Courses Taught:
      1. EE 2320/EE 2120 Digital Logic (+Verilog)
      2. EE 3300/EE 3100 Circuits II
   ii. Courses Built:
      1. TECH 5340 Systems Analysis and Design

***b. Faculty Instructor/Program Coordinator for Electronics Technology***
Tarrant County College, Fort Worth, TX
   i. Courses Taught:
      1. CETT 1409 DC/AC Circuit Analysis (+soldering, +Multisim)
      2. CETT 1441 Solid State Circuits (+Multisim)
      3. CETT 1449 Digital Systems (+VHDL)
      4. RBTC 1401 Programmable Logic Controllers (+Allen Bradley/RS Logix/Studio 5000)
      5. RBTC 1351 Robotic Mechanisms
      6. ELMT 2337 Electronic Troubleshooting, Service and Repair (+microsoldering, +motor control systems)
      7. PTRT 1313 Industrial Safety

## I. Professional Industry Experience

*a.* ***Director of Quality Systems Carroll Company, Garland, TX*** *June 014- August 2015*
Complete oversight of quality assurance, quality control and regulatory activities of chemical manufacturer.
Managed staff within the Quality Systems Unit, including Quality Assurance, Quality Control, Document Control and Regulatory Affairs teams. Built Internal Audit Program per FDA and ISO 9001 guidance.

Implemented Quality Management Review for Executive Management to have visibility to quality metrics, issues and improvements.

b. ***Quality Assurance Specialist, OsteoMed, Addison, TX*** *June 2012- May 2014*

Responsible for compliance with federal and company regulations and policies for medical device manufacturer.
Managed company Non-conformance System and CAPA program.
Managed internal and external audit program- issuing yearly schedule, compiling audit teams, auditing and reporting.
Conducted complaint investigations and performed health hazard analysis.
Issued corrective and preventive action for suppler quality deficiencies.

c. ***Quality Engineer, Medtronic Inc, Fort Worth, TX*** *May 2006- December 2000*

Provided technical support to drive quality and compliance principles to medical device manufacturer.
Integrated new products into manufacturing and operations.
Coordinated and managed test plans/protocols, training team personnel on testing strategies, analyzing results and publishing test summary reports.
Led teams to conduct root cause analysis on quality issues and implement process changes based on risk.
Developed and delivered training programs for both new and revised SOPs across site.
Assisted in both external and internal audit responses and tracked audits to completion.