Mark A. Harrell

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EXPERIENCED KENTUCKY CAREER & TECHNICAL EDUCATION (CTE)/SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (STEM) LEADER

- Initiating opportunities to reduce industry and education barriers and bridging the gap between these two sectors
- Instrumental in revamping the Engineering Technology Education Program of Study with strong ties to industry and post-secondary
- Expanded the Kentucky Technology Student Association 300% during my tenure as state advisor
- Collaborating to create CTE/Engineering Hybrid Pathways to expand access for students across the Commonwealth
- Developing college credit opportunities for students to increase college enrollment and retention
- Named first Districtwide STEM Coordinator in Franklin County Public Schools (FCPS): developed and implemented STEM curriculum in district's P-12 pipeline
- Awarded over $400,000 in grant funding for STEM based programs in FCPS
- Teacher of the Year - Franklin County Career and Technical Center (2010 & 2012)

WORK EXPERIENCE

Engineering Tech. Ed. Program Consultant   Winter 21-Present
Kentucky Department of Education/University of Louisville   Frankfort, KY
- Recruit future UL students into Education & Engineering Profession to create future workforce talent pool
- Advise schools on best practices as it relates to Engineering Technology Education in grades 6-12
- State Advisor for the KY Chapter of the Technology Student Association (TSA)
- Consult with districts to create/maintain high quality STEM programs

Engineering Tech. Ed. Program Consultant   Fall 16-Winter 20
Kentucky Department of Education/Eastern Kentucky University Frankfort, KY
- Advise schools on best practices as it relates to Engineering Technology Education in grades 6-12
- State Advisor for the KY Chapter of the Technology Student Association (TSA)
- Redesigned Engineering Technology Education High School Standards with alignment to post-secondary and high demand industry sectors
- Developing dual credit opportunities for program area/including EKU TEC 102 as facilitator
- Developing End of Program Assessment (EOPA) for four engineering pathways
- Consult with districts to create/maintain high quality STEM programs

Director of School Engagement (KY/TN)   Fall 13-Fall 16
Project Lead The Way   Office Indianapolis, IN – Remote Staff Frankfort, KY
- Lead the growth and development of PLTW within KY/TN schools/districts
- Work with existing PLTW districts to sustain their programs

Introduction to Engineering Design (IED) Master Teacher   Spring 09-Fall 13
Project Lead The Way   Various Locations
- Trained high school teachers to incorporate PLTW IED curriculum within their building and help to implement best practices
- Continued ongoing contact with teachers throughout the school year to help sustain PLTW program

PLTW Engineering Instructor – District STEM Coordinator ('13) Fall 06-Fall 13
Franklin County Career and Technical Center   Frankfort, KY
- Developed and maintained state of the art engineering facilities
- Collaborated with elementary/middle teachers to incorporate STEM to expand access for K-12 students
- Coordinated the Technology Student Association (TSA) with students qualifying for TSA Nationals each year

EDUCATION

Eastern Kentucky University   Richmond, KY   Fall 09
Master of Science – Career & Technical Education Administration

Purdue University   West Lafayette, IN May 02
Bachelor of Science – Technology Education

PROFESSIONAL ACTIVITIES

Kentucky Dept. of Education Office of Career and Technical Education – Engineering Advisory Taskforce
Clinton Global Initiative (CGI) America – STEM Working Group
Kentucky Society of Professional Engineers (KSPE) – Education Committee
Kentucky Federation of Advanced Manufacturing (FAME) – Recruiting Committee
Frankfort Chamber of Commerce – Economic Development Committee
Kentucky Department of Education – Grant Reviewer
Transforming Education in Kentucky (TEK) CTE - Steering Committee