# University of Central Missouri Summit Technology Academy

# MIC Aerospace Academy Collaboration

August 18, 2020 Presenters:

Dr. Jeremy Bonnesen, Mr. Joe Mullins, and Mr. Mike Adamson





#### Agraenaca Acadamy- High Waga High Damand Caraar Pathe

Aerospace Engineering Track

**Avionics Track** 

Professional Pilot Track

Aviation Maintenance Track

Drone Pilot Track

Aviation Management Track

Military Aviation Track

Creating Career
Pathways for High
School,
Non-traditional and
University Students





### Aviation/Aarnenaca Workforca

- Demand for skilled workers and a talent pipeline
- Current industry status
- Importance of preparing for the future
- Crossover skills for technicians







### Agracasca Acadamy Initiativa Canuanca

#### **Proposed Launch**

Fall 2021-2022 Aerospace Academy for students currently in STA Digital Electronics and Aerospace Engineering

#### **Program Sequence**

Junior Year: STA Digital Electronics/Aerospace Engineering (Flight and Electronic principles)

**Senior Year: STA Aerospace Academy** 

Continued Ground School and Avionics prep ("Front and Back side of the Airplane Console")





### Avionice

# **Aircraft Avionics**

- Communications
- Navigation
- Monitoring
- Aircraft flight-control system
- Fuel system
- Collision-avoidance system
- Flight recorders
- Weather system
- Aircraft management system

# **Mission or Tactical Avionics**

- Military communications
- Radar
- Sonar
- Electro-optics
- ESM/DAS
- Aircraft networks





# Professional Pilot Flight







# Ilnmannad/Nrona Pilot







# Aviation Management

Airport Director

Airport Operations Manager

Aviation Program Manager

Aviation Project Manager

Air Traffic Controller





# Aviation Maintananca

Aircraft Dispatcher

Aviation Maintenance Technician

Helicopter Technician

Aircraft Mechanic

A&P Mechanic





# Military Aviation

Army National Guard

Air National Guard

Airforce

Army

Navy

Marines

Coast Guard





# Fauinment

Aircraft Electronics Association (AEA) is willing to donate:

Key Equipment

Key Training and tools







## Futura Fauinment Naade-

Airplane for Pilot Track

Airplane for Avionics Track

Airplane for Maintenance Track

Maintenance Equipment

Additional Avionics Equipment







### Agraenaca / Aviation Players in Discussion with IICM and STA

- AEA (Aircraft Electronics Association)
- Ultrax Aerospace Engineering
- Duncan Aviation
- Kansas City Business Aviation Association
- FAA (Federal Aviation Administration)
- Gulf Coast Avionics
- Garmin

- Marsh & McLennan Agency, Aviation
- EAA (Experimental Aircraft Association) Chapter 91
- Atlantic Aviation
- Airshare
- Tipton Hill
- (AIM) Aircraft Maintenance Institute
- City of Lee's Summit
- 30 KC Area High Schools





# Rriaf Hietory of the Aarnenace Academy Initiative









## Rriaf Hictory of the Aarnenace Academy Initiative

#### Fall 2018

- Meeting/Tour with Aircraft Electronics Association
- Meeting/Tour with Kyle White, Aviation Business Professional
- Aviation Industry Forum

#### Spring 2019

- Industry meetings with Kyle White and AEA
- Industry meeting with FAA representative & Aviation Academy Dir. Rick Garcia from Polk County Academies
- Discussion with LS City Reps (LS Operations and LS EDC)





### Rriaf Hietory of the Aeroenace Academy Initiative

#### **Summer 2019**

- Joe Mullins' Avionics presentation to LS Mayor
- Jeremy Bonnesen and Joe Mullins present to LS Board of Aeronautic Commissioners

#### Fall 2019

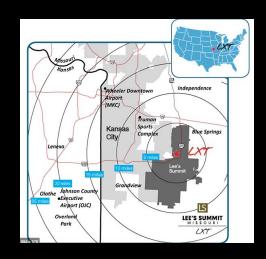
- Avionics Advisory Board Launch Meeting
- Action Teams met to advise (Curriculum, Certification, Industry partnerships)





# -vmahen A arcenara MNII hne TAD I / ATD Leanna Proncel Leanna Proncel









# CTA Hictory with City of I C







# Collaboration













# Kay timing-

Strategic master planning for future.

City of LS Strategic Plan - C4

LS Airport Master Plan

LSR7/ RWL Initiative and Future Ready Strategic Planning







# Chart tarm Ontions

Modular Rooms: Suite F/Executive Conference Room

EAA Hanger

Hanger 1



Partner with Aviation Clubs and Organizations for fuller collaboration





# Mid\_ranga Ontione

Hanger 1

Move a LSR7 Modular to Airport Site









# Innatorm Ontione

East Side Airport Development on 470/Strother Road side of LS Airport

Public Private Partnership UCM/LSR7/City of LS

**Industry Partners** 

\*Seek Grants from philanthropic organizations







# Airnort and City of I C Canital Improvement Planning









# Land Ilea Comnatihility







# **IICM** Aviation



**Dual Credit** 

Professional Pilot

Aviation Management - Flight Operations

Aviation Management - Airport Management

Aviation Maintenance Management

Master of Science - Aviation Safety





## Frieting Programe/Potantial Partnere

- Central Florida Aerospace Academy
  - http://www.polkacademies.com/cfaa/Tracks.asp
  - http://www.polkacademies.com/TV/tvProfile.asp?id=40s qTESIXiM
- Embry-Riddle
  - https://erau.edu/gaetz-aerospace-institute/
- Gulf Coast
  - www.GCA.aero







# **Next Steps**



- Meet with Advisory Board
- Finalize curriculum and program with industry input
- Work City of Lee's Summit and LS Economic Development Council in planning and program development where possible
- Marketing and program rollout



