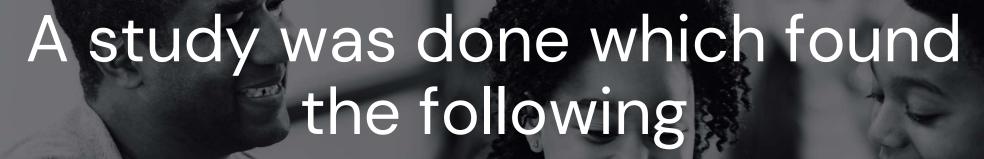


More Than Just Toys



- At first glance, UAVs might seem like nothing more than an overpowered toy.
- However, they can be a powerful tool for education in disciplines like technology, science, math, and even social studies.
- Across the world, schools are beginning to integrate UAVs into their curriculums, and they're seeing high returns on investment.



The study was entitled "A systematic review of Drone integrated STEM education at secondary schools (2005–2023): Trends, pedagogies, and learning outcomes"

(https://www.sciencedirect.com/science/article/abs/pii/\$0360131524000137)

Increasing Research

Integration in Schools



- Global trends indicate UAV education is critical across academic levels.
- UAV education has found broad adoption across various disciplines
- UAV education enhances student learning and prepares them for future careers
- UAVs can serve as an effective medium for cross-disciplinary learning opportunities.

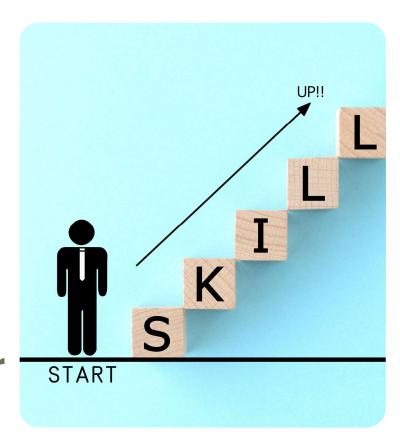
Education & Career Value

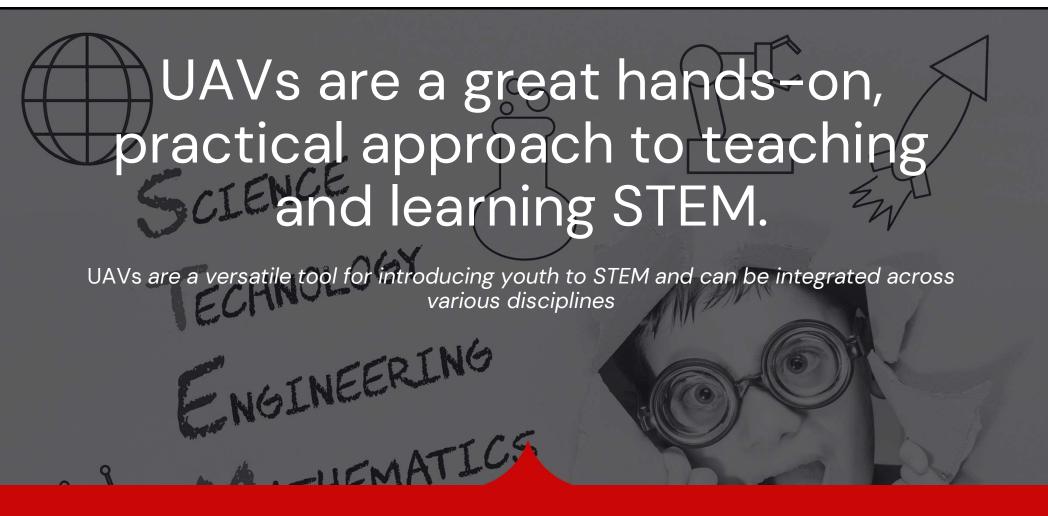
- UAVs are now considered a part of STEM education for all levels.
- UAVs can be used for knowledge acquisition. Students can learn about aerodynamics, aviation, programming and data analysis.
- Problem Solving UAVs serve as a tangible tool that encourages exploration and problem-solving.
- Developing a wide range of skills Have been proven in the development of essential skills such as imagination, creativity, project management, and technology proficiency.
- Critical thinking collaboration, learning adaptation to challenges skill

Other Value in Education

- Developing motor skills and hand-eye coordination
- Teaching Coding
- Teaching Physics
- Building intellectual and creative skills
- Hands-on Learning Experiences

Altogether are vital skills for your future careers.

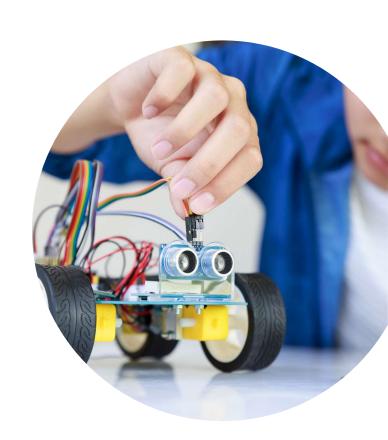




- Science Using imagery or video data to make analyses, models in areas such as environmental conservation, precision agriculture, in fields such as Geospatial Information Systems (GIS), Environmental Science and Geography.
- Technology The practical use of technology to improve life in areas such as agriculture, cultural heritage conservation and more



- Engineering can include data
 engineering and analysis in areas such
 as aeronautics, electronics and
 electrical, mechanical, and robotics
 engineering.
- Mathematics Building and running
 Autonomous Systems and applications
 such as mapping missions, obstacle
 avoidance and more.

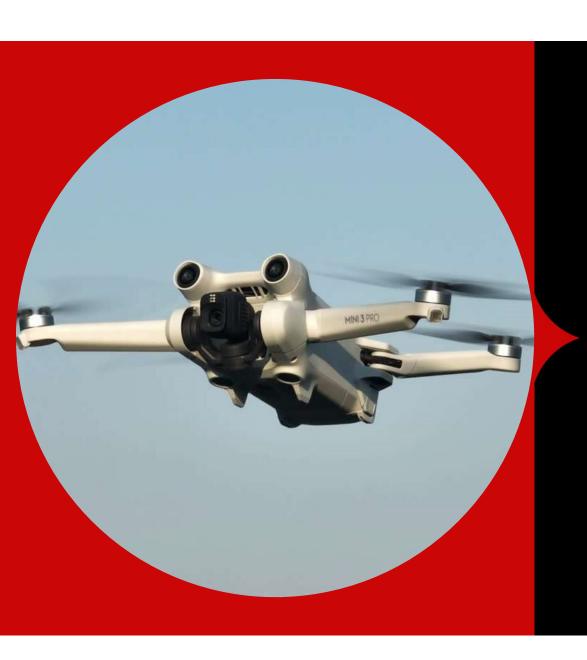


"Drone technology is a valuable teaching tool for engaging students in STEM education, offering a hands-on, practical approach to learning, allowing them to apply STEM principles in a real-world context".— Dr. Renee Welch, Co-Pilot, WeRobotics



A thought for the future

- UAV education is now an essential component not only for meeting industry demand but also for empowering the next generation to lead and innovate in a UAV-driven world.
- UAVs are part of the new educational journey to prepare students for future careers while giving them the tools to reach new heights.
- Mr. Small will next examine specific careers that are UAV related.



THANK YOU!