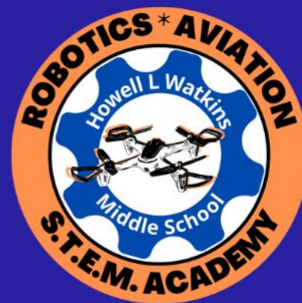
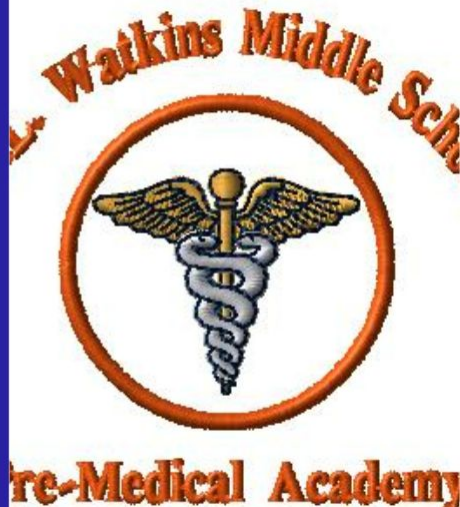


We welcome you to Howell L. Watkins Middle School

Home of the Seminoles

November 2, 2022



• Agenda

School Information

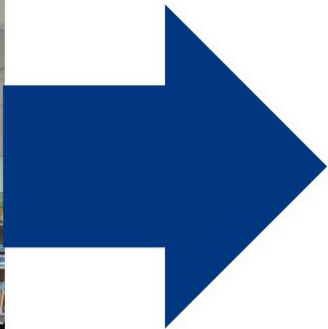
Academies

Courses, Clubs, Sports

Accolades

Tour

Q & A





leadership

Administration

Dr. Presley Charles, School Principal

Dr. Kimberly Jastrome, Assistant Principal

Mr. Jarred Taylor, Assistant Principal

Mr. Scott Caruso, Assistant Principal

Mr. Larry Harris, Assistant Principal

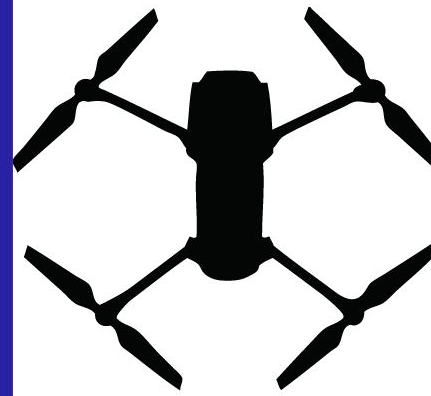
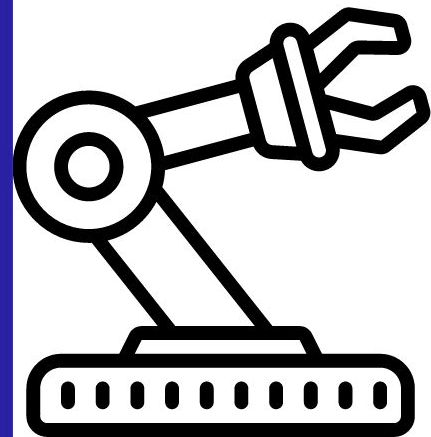
Ms. Melanie Haspil, Single School Culture - Curriculum

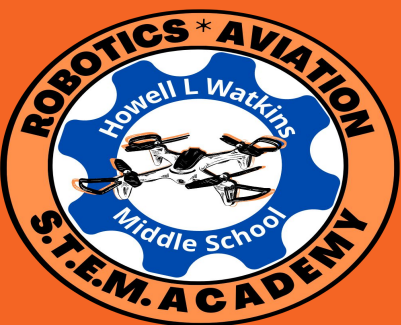
Mr. Errik Lowe, Single School Culture - Dean

MR. COLMAN & MR. PENA

Robotics, Aviation & STEM

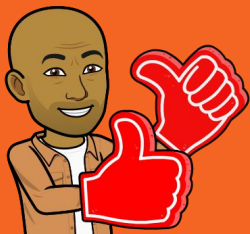
- ENGINEERING
- CODING
- PROGRAMMING
- ROBOTS
- AVIATION
- DRONES
- PROBLEM SOLVING
- CRITICAL THINKING
- COMPUTER LITERACY
- MATHEMATICS
- ANALYTICS
- TEAMWORK
- CAREER EXPLORATIONS



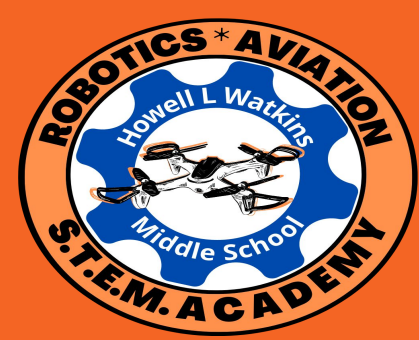


H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

Mr. Colman, Academy Instructor



15 Years



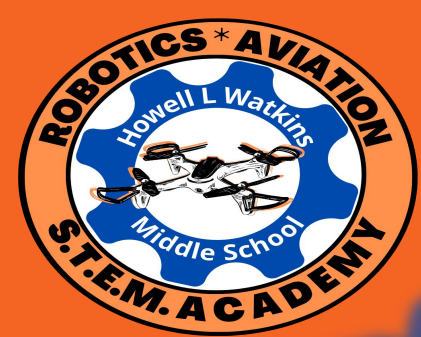
H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

Robotics Curriculum

**Carnegie
Mellon
University**

- **Top 5 University Nationally in
Engineering & Computer Science**

Carnegie Mellon Robotics Academy



H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

6th



LEGO® MINDSTORMS®
Education EV3



Introduction to Programming with EV3 Classroom



EV3 Getting Started



EV3 Movement



Boulder Math



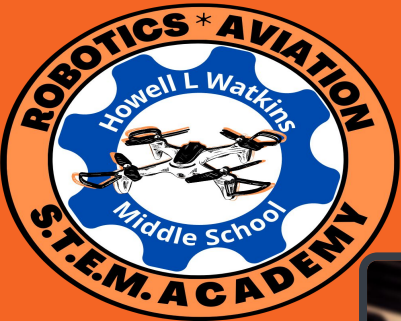
EV3 Sensors



EV3 Decisions



EV3 Final Challenge



H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

Mr. Peña, Academy Instructor



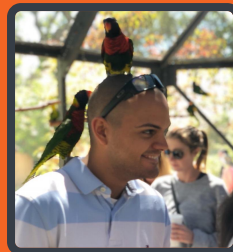
South Florida Native

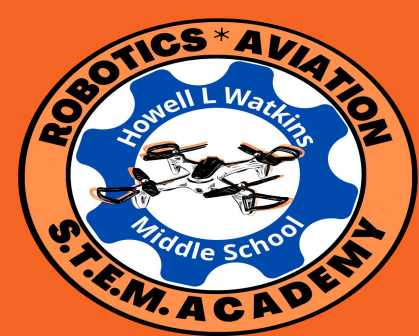
Education

- Biotechnology Laboratory Specialist Certification
-Max Planck Florida Institute for Neuroscience
- Associate of Science in Biotechnology
- Bachelor of Science in Biological Sciences

Hobbies

- Musician
- Motorcyclist & Auto Enthusiast



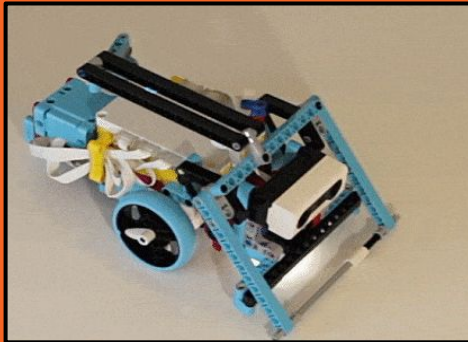


H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

7th



Coding and Computational Thinking with LEGO SPIKE Prime



Getting Started



Loops



Programming the Hub



Discrete Decisions



Robot Movement



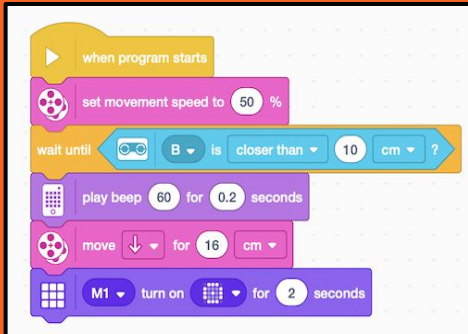
Continuous Decisions

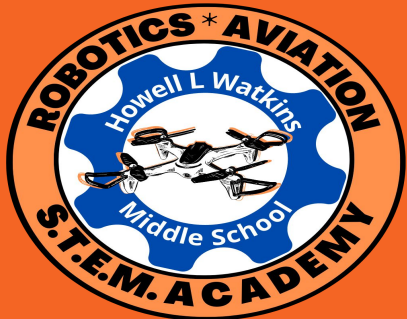


Wait Until & Sensors



Capstone: Subterranean Challenge





H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

- We will be exploring multiple engineering disciplines with the help of Lego Education Builds and other amazing programs.

CS EXPLORATIONS I CSE 1: CS FUNDAMENTALS IN SCRATCH

TEACHER RESOURCES

BLOCK A: GETTING STARTED AND MOTION IN SCRATCH

UNIT 0
Getting Started With Computer Science
[VIEW UNIT](#)

UNIT 1
Motion in Scratch (Events)
[VIEW UNIT](#)

BLOCK A PROJECT
Movie Magic!
[VIEW PROJECT](#)

BLOCK B: ANIMATION AND GAMES

UNIT 2
Animation (Objects)
[VIEW UNIT](#)

UNIT 3
Games (Conditions)
[VIEW UNIT](#)

BLOCK B PROJECT
Where is Carmen?
[VIEW PROJECT](#)

CS EXPLORATIONS 2 CSE 2: AI IN OUR WORLD

TEACHER RESOURCES

BLOCK A: WHAT IS AI?

UNIT 0
Getting Started With Artificial Intelligence
[VIEW UNIT](#)

UNIT 1
What is AI?
[VIEW UNIT](#)

BLOCK A PROJECT
Scratch Lens
[VIEW PROJECT](#)

BLOCK B: REPRESENTATION, REASONING, AND MACHINE LEARNING

UNIT 2
What is Data Representation?
[VIEW UNIT](#)

UNIT 3
Machine Learning
[VIEW UNIT](#)

BLOCK B PROJECT
Block B Project
[VIEW PROJECT](#)



Kickstart a Business (Lesson 6)



Automate it!
SPIKE™ Prime Set

Create and program an automated helper that can identify and ship the correct package based on color.

Invention Squad (Lesson 5)



Design for Someone
SPIKE™ Prime Set

Use the complete design process to solve a real-world problem linked to prostheses.

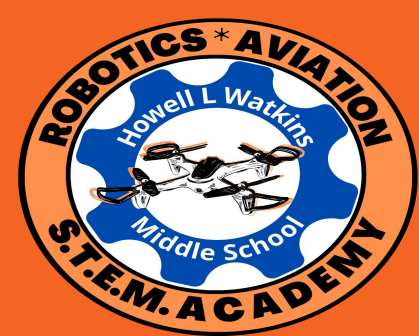
Unit Plan (7 Lessons)



Kickstart a Business
SPIKE™ Prime Set

You've come up with an amazing idea and you want to share it with everybody. Entrepreneurship can strike at any moment, so get ready to transform your thoughts into reality.





H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

8th



VEX Cortex Video Trainer



VEX EDR Fundamentals



EV3 Decisions



VEX EDR Setup



Discrete Decisions



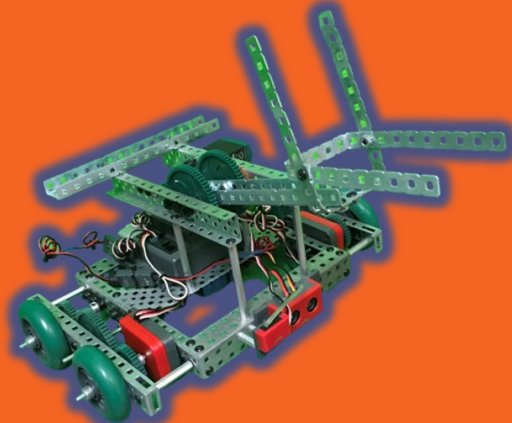
Boulder Math



VEX EDR Engineering

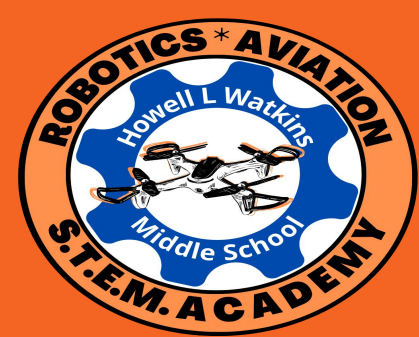


Wait Until & Sensors



VEX[®]

ROBOTICS



H.L. Watkins Robotics & Aviation (S.T.E.M.) Academy

8th



EMBRY-RIDDLE
Aeronautical University



History of Aviation

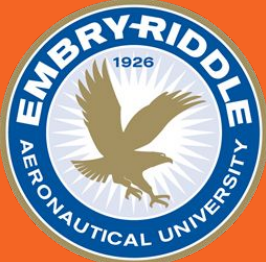
FAA Airport Design
Challenge

NASA Glider Challenge

Aviation Engineering
Challenge

Aerospace Dimensions

Rocket Science & Space
Exploration



Pre-Medical Academy

with Mrs. Allen



- SIMULATED MEDICAL LAB
- BLOOD PRESSURE
- HEART MONITORING
- CARDIO VASCULAR
- CPR CERTIFICATION
- DISSECTIONS
- INTERNSHIPS
- NUTRITION
- ILLNESS/DISEASES
- CAREER EXPLORATIONS

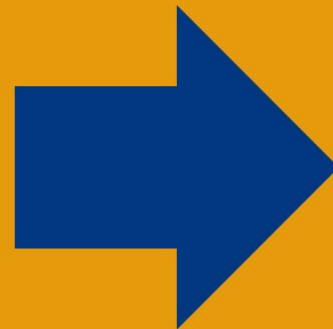
Ms. Allen

Academy Instructor

- Graduate of Keiser Career College
- Co-teacher Nurses Aide Program
- Medical Assistant Experience
- Experience in compounding pharmacy
- Long term care hospital
- Pharmacy technician instructor



Pre-Medical Academy



Program Courses

- 6th - Orientations to Health Occupations
- 7th - Explorations
- 8th - Medical Skills and Services

high school credit course

Terminology

Occupations



Hands On Learning Lab



Collaboration



Certification



Cardio
Pulmonary
Resuscitation

Primary Years Programme

IB-PYP is a curriculum framework designed for students aged 3-12 years. It focuses on the development of the whole child as an inquirer, both in the classroom and in the world outside. It is defined by six transdisciplinary themes of global significance. These are explored using knowledge and skills derived from six subject areas, with a powerful emphasis on inquiry-based learning.



Middle Years Programme

IB-MYP is a conceptual curriculum framework for students between the ages of 11-16 years. The MYP aims to develop active learners and internationally-minded young people who can empathise with others and pursue lives of purpose and meaning. The programme empowers students to inquire into a wide range of issues and ideas of significance locally, nationally and globally. The result is young people who are creative, critical and reflective thinkers.



Diploma Programme

The IB Diploma Programme is a curriculum framework for students between the ages of 16-19 years. The IBDP aims to develop students who have excellent breadth and depth of knowledge – students who flourish physically, intellectually, emotionally and ethically. The DP was established to provide students with a balanced education, to facilitate geographic and cultural mobility and to promote international understanding.



International Baccalaureate Program



Offers interdisciplinary opportunities, project based learning, collaborative learning and community service opportunities.

Goals

- One of the main goals of the IB program in schools is to develop inquiring minds of our young people and guide them through the cycles of inquiry, action and reflection.

Pathway

Explore opportunities for high school IB DP programs.

Experiences with International Baccalaureate (IB) Programs

- Engaging and personalized experience
- Collaborations
- Interdisciplinary Units
- Project Based Learning
- Community Service Opp
- ortunities
- AVID Model - Advancement via Individual Determination

**Pairing of the globally focused IB framework and
the practical application of AVID.**



Before - During - After

We want our students to be well balanced. HLW offers a variety of classes, sports, clubs and enrichment for everyone - and support for academics and social emotional learning all year!

● Accelerated Courses

African American History
Algebra II
Digital Discoveries
Geometry
Info & Communication Tech
Latin American History
Physical Science
Spanish

● Electives

Art
Band
Career Research
Critical Thinking
Computers
Fitness
Journalism
Keyboarding
Spanish
Team Sports

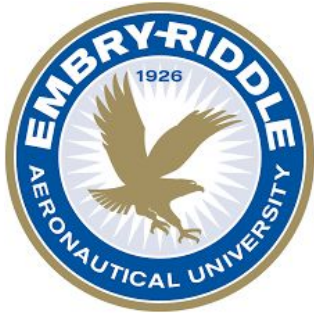
● Sports

Baseball
Basketball
Cheer
Soccer
Softball
Volleyball
Track
Intramural Sports

● Extra Curricular

Anime Club
Chess Club
Dance Team
Jewelry Club
National Junior Honor Society
Photography Club
Robotics Team
SECME
Student Government

Partners in Education





Stay Connected with us!



Facebook

Twitter

Instagram

School Website

SAC Meeting

Another tour

Choice Coordinator - Mrs. Alexios
