

Aviation Institute of Maintenance

400 E. Airport Freeway • Irving, TX 75062 • Telephone: (214) 333-9711 • Fax: (214) 333-9185

October 29, 2018

Letter of Recommendation for: Irving High School

It is with great pleasure to highly recommend Irving High School for the Excellence in Action Award for 2018. Irving High School has been instrumental in the development and success of their Aviation Academy programs as evidence by the increasing number of students wanting to learn more about the Aviation industry.

Irving High School continues to build strong relationships within their local community by reaching out to Career schools in order to facilitate career interest in their students. In 2015, they developed a strong relationship with the Aviation Institute of Maintenance-Irving. This relationship has allowed students to gain further experience and training by participating in Aviation Projects in our schools Hangar, which will increase their ability to be successful in the ever-growing workforce of tomorrow.

My interactions with Irving High School has been nothing but extraordinary, as they have been professional and accommodating in merging the business and educational aspects of their partnership with Aviation Institute of Maintenance. I am looking forward to the continued growth of our relationship in working together to influence students career options as they enter the workforce after high school.

If you require any further information from me, please do not hesitate to contact me.

Ron Buskey | Community Outreach Representative

Aviation Institute of Maintenance – Dallas Campus

400 E. Airport Freeway Irving, TX 75061 (214) 333-9711 ext. 140



"I've learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel." ~Maya Angelou

To whom it may concern,

Irving High School's Aviation department is one of the leading high school aviation programs in the Dallas Fort Worth metroplex. The instruction and leadership opportunities exhibited in this program qualifies participating students with a world-class introduction into the world of aviation. Whether students participate in the Flight, Aircraft Maintenance, or the Aviation Engineering program they receive industry level instruction and certifications.

It is my honor and privilege to recommend the Irving High School – School of Aviation Science for the Excellence in Action Award. Under the leadership of Mr. Craig Heckel, Signature Program Coordinator, the aviation science program is headed for new heights of achievement. With the significant advancements in the aviation industry, the Irving High School – School of Aviation Science is helping create a pipeline of future aviation professionals.

Receiving an award like the Excellence in Action Award will further validate what the students and teachers in the School of Aviation Science strive to obtain through instruction and work-based learning activities and will aid in propelling the program to the next level.

Please feel free to contact me for any further questions.

Alfred T. Brooks

Part 147 Instructor| Aviation Department

Erma C. Johnson Hadley Center of Excellence for Aviation, Transportation & Logistics

Fort Worth Alliance Airport | Office: OWTL 2104A

2301 Horizon Drive |Fort Worth, TX 76177

817-515-7254

Alfred.Brooks@tccd.edu | www.tccd.edu



North Central Texas
Council of Governments

To whom it may concern:

My name is Ernest Huffman, Aviation Program Area Manager with the North Central Texas Council of Governments. I have had the pleasure of working with Craig Heckel and other faculty/board members of the Irving ISD Aviation Sciences team for approximately 2 years.

Each Aviation Sciences team member demonstrates their passion for aviation and a sincere interest in elevating their students' knowledge and abilities, thereby increasing their college- and career-readiness.

The Irving ISD Aviation Sciences curriculum delivers hands-on learning experiences, by giving students valuable instruction on Aviation Science, Technology and Unmanned Aircraft Systems (UAS) Engineering.

In fact their UAS Engineering leadership has lead to an award winning effort in the Real World Design Challenge. The Real World Design Challenge (RWDC) is an annual competition that provides high school students, grades 9-12, the opportunity to work on real world engineering challenges in a team environment. Irving ISD won the completion here in Texas and then went on to compete at the national level.

Irving ISDs Aviation Academy also helps alleviate the current labor deficit that we currently have in the aviation/aerospace industries. With over 200 students focused annually on the aviation industry the only thing that's lacking are the resources needed to ensure that these children matriculate to fill this demand.

Every student deserves the opportunity and tools to explore and achieve success in their career interests. Programs such as the one offered by Irving ISD are crucial to both the fulfillment of the talent pipeline within the Aviation & Aerospace industries, and the economic growth of our region.

If you have any additional questions or would like further clarification, please feel free to contact me.

Sincerely,

Ernest Huffman
North Central Texas Council of Governments

Irving ISD Aviation Sciences Receive National Recognition in the Real-World Design Challenge in May 2018



Congratulations on winning your individual State competitions for the Real-World Design Challenge! All of you are now invited to compete in the National Competition in Washington DC this year. The National Competition was April 21, 2018 and in order to compete teams must pay a registration fee. Teams that register will have their transportation, lodging and meals at the competition arranged for them. The registration for teams will depend on how many students you plan on bringing to the competition. Teams may choose to bring fewer members of the team if they choose at a minimum of 3 students and maximum of 7. In this competition students are given a version of software and problem to alleviate, students then develop a solution to the proposed problem that must fall within critical tolerances. Students are required to submit a lengthy essay and develop an aerodynamically feasible solution to the proposed problem. In this depiction, the students have recently presented their solution to the given problem and are hailed as the “best new team” to the competition and 10th overall at the 2018 National competition in D.C. , in addition the students were awarded the governor’s cup from the state of Texas.

Irving High School - School of Aviation Science featured in the REDBIRD LANDING



Tony Lech is Aviation Coordinator at Irving High School's School of Aviation Science . For more on the program, we connected with Tony to talk technology, partnerships, and student achievements. In this picture students from the Irving High school's School of Aviation Science are flying cross country mission in their Redbird LD flight simulator. Here students learn standard flight maneuvers such and Turns about a point, S-turns, stalls, and takeoff and landing. Our simulator is a proud achievement and it give students a vivid likeness of what real flying is all about and the importance of safety. In this photo students pose show off their cross-country flight skills for feature in the April 2018 AviNation Periodical.



Traditionally, flight instruction is 1:1, and it is difficult to engage a class of 25-30 students with a single instructor and flight simulator. However, we have set up our classroom to allow all students to participate in every flight. Televisions at the front of the classroom, paired with a PA system connected to the simulator headsets, allow students to see the instruments and airplane, as well as communicate with the pilots in real time. Using a tablet and the new Redbird Navigator system, Instructors can walk around the classroom, interact with students while monitoring and critiquing the flight in progress, and change conditions in flight all at the same time with the computer at any time to simulate any conditions, display what the aircraft looks like from the flight deck and from the outside of the aircraft. This is a multi-faceted style of learning which gives learners a combined incorporated learning environment style, circa March 2017.

More Information at: <https://landing.redbirdflight.com/posts/cte-program-focuses-on-aviation>

Irving High School - School of Aviation Science Field Based Learning at Dallas Air EXPO



Annually, Dallas Ft. Worth Airport puts on the Skyball and with that even comes a flock of unique aircraft to Hangar 5 at DFW. This EXPO is a great opportunity to have students from all over to see the attractions. Much like an airshow, students who may have never seen an aircraft up close before are able to see up close inside aircraft cockpits and inside cabins, walk underneath and kick the tires or speak with the actual pilot of the aircraft! In close proximity to Hangar 5 is the C.R. Smith museum. The museum opens its doors during the EXPO and the students are whisked away for a few moments to enjoy the tour the history of aviation and American Airlines. Here, Irving High School Aviation students pose with the American Airlines flagship symbol just outside of C.R. Smith Museum and in front of some of the many static displays at the EXPO.

Irving High School - School of Aviation Science Field Based Learning at Flight Safety International



In conjunction with the Black pilot's association, students who have shown academic prowess and leadership are invited to join the ACE Academy for their summer camp the week after school lets out in June. This week-long event is a fun filled, exciting opportunity for any aviation student and a chance to see and do things that the general public doesn't get the opportunity to. At ACE camp the students get to attend Flight Safety where simulators are built, and training is conducted for many carriers and private companies. Unlike a major airline, who doesn't have their own flight simulators, pilots can come to flightsafety and train on simulators which is a tremendous cost to the carrier. Once a year the ACE camp takes the well-deserved students in to the simulators and lets them pick a place they would like to go and in the students are flying around Hawaii or Singapore or wherever they can imagine. This opportunity let them in the most realistic fashion what a life in the left seat is all about.

Irving High School - School of Aviation Science work with education partner Aviation School of Maintenance



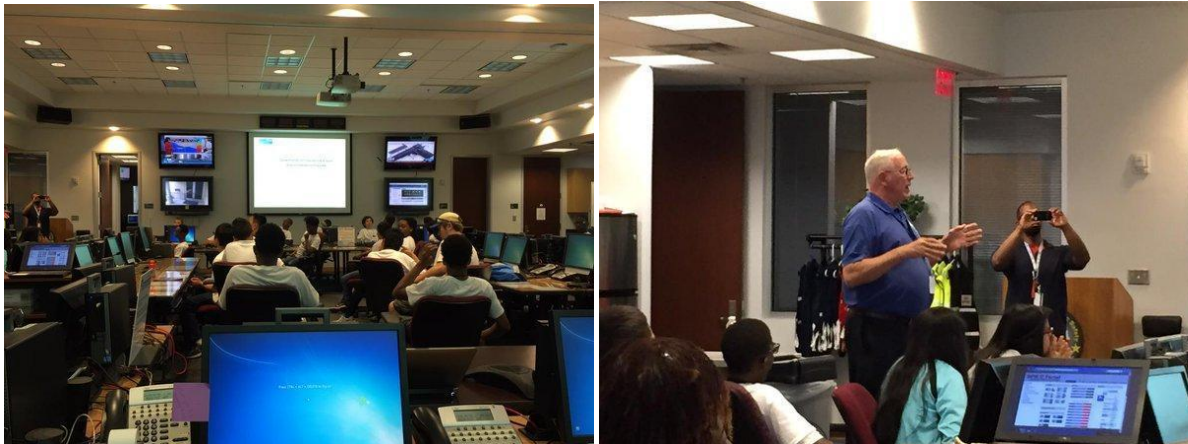
The Irving Independent Schools School of Aviation Science is closely located to the Aviation Institute of Maintenance. This facility is a gem when it comes to the curriculum that IHS is tasked with teaching. Students receive all sorts of Aviation training at Irving High School starting with the basics. Starting their junior year in high school the students spend some time at AIM learning practical hands on applications under supervised instructions. This allows students to get real world experience in a real-world facility taught by instructors who teach at both Irving High School and at AIM in an accredited articulated agreed upon curriculum. This allows students to gain experience, knowledge and industry credit for starting in their High School years. This gives students advantages that might not be available in other schools that are not located close to facility like AIM. In this photo two top award winning/outstanding Irving High Students are working in the fabrication shop at the Aviation Institute of Maintenance drilling in aircraft grade aluminum metal preparing the spar for additional riveting under the supervision of a highly trained and accredited dual campus instructor.

Irving High School - School of Aviation Science present at District I-Create Competition



Irving ISD hosts annually an I-Create event which is a next generation showcase where students show what they have done and the projects they have completed. Here you find many students who create everything past present and future. you may find anything from steam engines to smart phone apps. This allows students the opportunity to show off their projects long after they have received grades for them. Here students show off their near exact replica of the Wright Flyer which they created from their computer aided designs where they were named as a feature project display for the district showcase.

Irving High School - School of Aviation Science Students Attend Annual ACE Camp



ACE Camp at DFW International Emergency Operations Center

Great opportunities for the Irving High School Aviation Academy students to understand another side of DFW International Airport. Here students learn that the DFW International Emergency Operations Center is responsible for coordinating contingency and emergency plans, as well as maintaining the Emergency Operations Center, and supporting its operation when activated by emergency. The team maintains close contact with Federal, state, and local partners to enhance preparedness for disasters. This a very close behind the scenes look at how the airport operates and takes precautions to keep everyone safe in the event of disaster, whether it be an aircraft accident or a cardiac arrest in the terminal to a tornado or bomb threats or gas leaks. The center is prepared for any type of emergency and the students gain insight into the necessity in following instructions and protocol.



ACE Camp at DFW International Aviation Fire Training Center

On this day the students had a unique chance to see Dallas DFW firefighters at their training center. The DFW International Aviation Fire Department is recognized as one of the world's foremost firefighting training programs, DFW International Airport Fire Services is comprised of more than 170 firefighter personnel specially trained to respond to emergencies common to airport environments. Crews come to DFW from across the U.S and many other countries to sharpen their skills with our experienced instructors and state-of-the-art equipment. This allows students another way they can see the hybrid needs of aviation mixed with other careers. In this photo the ACE camp students are in for a magnificent treat as the student's witness to a real-life fight fighting training session with the wide-bodied double deck aircraft simulating the largest of the aircraft that negotiate the facilities at Dallas-Ft. Worth International airport.

Irving ISD Aviation Career Day Field Trip to Meacham Airport and Fort Worth Aviation Museum

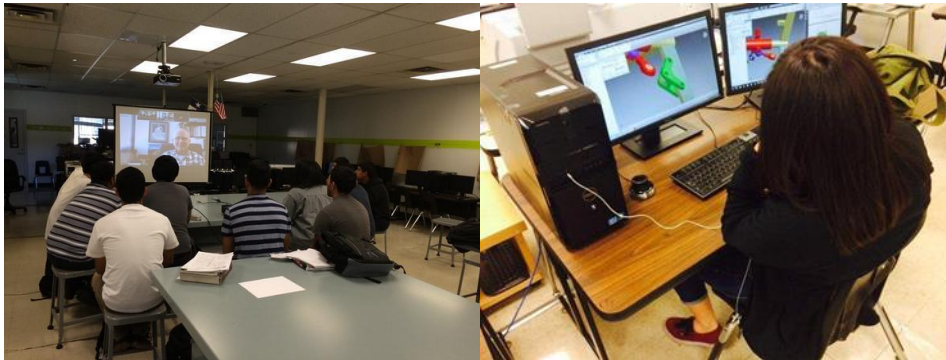
Irving, Texas, School District's field trip to Fort Worth Aviation Museum

Video link: <https://www.youtube.com/watch?v=zpxRlcqS8k>



At the DFW Career EXPO

<https://www.youtube.com/watch?v=tqDA18X6kSA> (see video)



Nepri Session with NASA Engineer

The advanced Irving High School Aviation Academy students were able to speak with a NASA Engineer through Nepri. Nepri is a web-based platform that connects students, teachers, and industry professionals while providing companies a way to participate in education outreach.

Irving ISD Aviation Career Day Field Trip to Meacham Airport and Fort Worth Aviation Museum

Irving, Texas, School District's field trip to Fort Worth Aviation Museum

Video link: <https://www.youtube.com/watch?v=zpxRlcqS8k>



At the DFW Career EXPO

<https://www.youtube.com/watch?v=tqDA18X6kSA> (see video)