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“There is nothing in machinery, there is nothing in embankments and railways and iron bridges and engineering devices to oblige them to be ugly. Ugliness is the measure of imperfection.” ~H.G. Wells

## CEAS News

### AFCEA Major General Robert E Sadler Award Given to WMU ROTC Graduate



Lt. Justin Soeder is a recent Western Michigan University Air Force ROTC graduate and an Electrical Engineering major was awarded the Armed Forces Communications and Electronics Association (AFCEA) Major General Robert E.

L-R: Major General Fedder presenting Lt. Justin Soeder with his award.

Sadler USAF Award. This award is the result of a national competition and is given to the top graduating Electrical or Communications Engineer in Air Force ROTC and this is the first time it has ever been awarded to a cadet from the WMU and MSU detachment. In addition to Justin’s award, his name will be engraved on a plaque with the AFCEA. To add to his accomplishments, Lt. Soeder has been accepted into the Air Force Institute of Technology where only 11 slots were awarded nationwide. Justin plans to complete his masters in 18 months, and then go on to become a developmental engineer in the United States Air Force.

### CEAS Headline News Links



[Rescued From a Plane Crash at 15, WMU Engineering Grad Lance Corporal Douglas Ongiyo has Conquered Considerable Odds](#)



[Cutting Device May Revolutionize Process](#)



[WMU Construction Engineering Grad is Promoted from a Monroe Brown Intern to CSM Project Engineer](#)



[CEAS Engineering Students Refurbish WMU Trolley](#)

### Senior Design Group Wins AIAA Region III Competition



L-R: Nicholas VanDeRoer, John Brandt, and Ryan Neuland.

Recently a WMU aeronautical senior design group received first place in the team competition category at AIAA Region III Student Conference & Competition held at the University of Michigan.

The 1st Place award consisted of \$500.00 and a trip to the 51<sup>st</sup> Aerospace Sciences Meeting in January 2013 in Texas. The team project was called “Free-Wing Aircraft”, the design addressed an ever growing need for aerial surveillance. The team researched free-wing concept and collected data using airfoil analysis software and wind-tunnel testing. The full scale aircraft was then built and flight tested to maximize the benefits during low airspeed flight. The free-wing was designed to pivot about the span wise axis and which allowed for better gust alleviation and stability over a conventional wing, therefore creating steadier surveillance capabilities. Whether the aircraft is used for border patrol, traffic surveillance, or military exploits, having a birds-eye view is of considerable benefit to the user. The winning team members were seniors **John Brandt, Ryan Neuland, and Nicholas VanDeRoer.** Their mentor was **Dr. Kapseong Ro, Ph.D.**, associate professor in the Mechanical and Aeronautical Engineering department at WMU.

### CEAS Student Dies from Motorcycle Accident

Doug Yonkers passed away June 7 from his injuries following a crash last week. Dr. David Meade remembers him as an excellent manufacturing engineering student and a first class individual. Our thoughts are with his family. [Fox 11](#)