



# Southeast Raleigh Magnet High School

## NAF Engineering Academy Newsletter

VOLUME 4, ISSUE 1

FALL 2016

### IN THIS ISSUE

- Letter from the Director
- OLE's
- Honor Rolls
- Advisory Board Update
- Graduate Spotlights

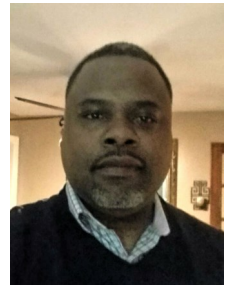


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## Ch-Ch-Ch-Ch-Changes . . . . .

Hopefully everyone was singing along with the famous David Bowie song, Changes. This fall and winter has brought a lot of changes to the Engineering Academy. First of all, Mr. Beatty, our great teacher, mentor, VEX coach and overall great guy left us for a place at the beach, but can you blame him. Fortunately Mr. Welker, his great former student teacher, needed and wanted a job, so we hired him. Then at the end of the semester we had to say farewell to our awesome teacher and department chair, Ms. Laing as she wanted to stay home with her new born baby girl, and who can blame her. Fortunately, we hired a great teacher as her replacement.

Meet Mr. Antonio Barnes, a very qualified and excited teacher. Mr. Barnes comes to us from the Guilford County school system where he was a Network and Computer Engineering instructor. He received his masters degree from Embry-Riddle Aeronautical University. He also has worked in the private sector as a Network Administrator and Quality Engineer. He will be teaching Aerospace Engineering and IED this semester.



So, "As things change, the more they stay the same." Even though we have had some changes in instructors, we are still committed to teaching the Project Lead the Way curriculum and bringing you the best academy experience in Wake County.

John Geraghty  
NAF Academy of Engineering Coordinator

### Do you shop at Amazon.com?

**If so, Amazon will give the Engineering Academy money.**

**Amazon Smile is the part of their organization that donates a percentage of sales to tax exempt businesses.**

**We will get .5% of sales on SmileAmazon.com when you use this site:**

<https://smile.amazon.com/ch/46-0953611>

### *Important Dates:*

Feb - 13th - Academy Advisory Board Meeting  
6:30pm

Feb - 27th - Internship Meeting - Mandatory meeting for all current juniors and parents.

May 11th - Academy Senior Banquet

May 16th & 17th - EDD Judging

May 30th - GRADUATION!!!

Delta

# OLE's (Off-site Learning Experiences)

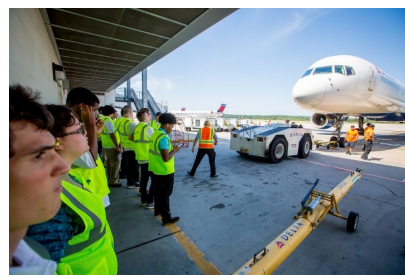
Thanks to Junior Achievement for setting up an awesome OLE to Delta Airlines. On September 14th we took the students who are registered for the Aerospace class in the Spring and students who have an interest in Aerospace Engineering to tour Delta. Fortunately there was a professional photographer documenting the experience for us and Delta.



Delta employee showing the gate process.



AJ might have a new career option.



Tarmac and baggage tour.



Jordan and Akeem pilots?!?!?!?



Group Shot

## OLE's continued

On October 12th NAF and Lenovo teamed up for a College and Career readiness program at the Sheraton Imperial hotel in RTP. The students dressed professionally and impressed the volunteers with their resume's and interview skills.

Almost 500 Lenovo employees engaged with North Carolina NAF academy juniors and seniors to expand access to work-based learning and help prepare them for college, career and future success. 22 juniors and seniors participated in the event.



Tyree and Daniel getting tips on interviewing.



Nile, Nathaniel, Kendra, Daniel, AJ, Jordan and Jesse enjoying the catered lunch.






## OLE's continued

The Engineering Academy had many other career experiences last semester. Unfortunately I have misplaced my pictures from some of them. If you went on one of these OLE's and have some pictures, please send them to me and I will put them in the next issue.


On October 18th we took 17 students from the Civil Engineering class to the **Benton Water Treatment Plant** in Garner. They learned about how we get our water.



On November 2nd 25 juniors and seniors went to  **MetLife** for a **Job Shadow** event.

On November 10th 20 freshmen went to **GE Aviation** in RTP for a **Job Shadow** event.



On November 18th **Accenture** was the host for 23 juniors and seniors where they participated in the **Junior Achievement** Career readiness program.  **accenture** High performance. Delivered.

On November 22nd 24 freshmen went to **NCSU** for their **Freshman Engineering Design Day**. They got to witness many different problem solving projects ranging from bubble blowing machines, Rube Goldberg devices, bridge building, fabric water pouch, concrete canoe, computer game, projectile launcher among others.



On November 30th we took 17 juniors and seniors to the **National Guard Armory** to learn about the Army and helicopter aviation.



## Recruitment

# Leadership / Recruitment

The months of October and November were very important months for recruitment. We went to many middle schools including: Zebulon, Moore Square, Heritage, West Lake, Lufkin and Ligon. At the events we brought groups that make us special and unique. The marching band, theater group, FIRST robotics team as well as student leaders to talk about our great school.



Some leaders that went to talk about the Engineering Academy were: Korbyn Hackney, Essence Walker, Jordan Parrott, Alan Gaines, Joshua Pil, Jack Gelm, Seth Dilday, Nathaniel Orsak, and AJ Thompson.



They did a great job talking in front of 300-400 8th graders about why Southeast is the best high school to attend.



# **SRMHS - NAF Academy of Engineering**

## **FALL 2016 “A” HONOR ROLL**

**Tanguy Absillis**

**Emma Belscher**

**Emmarose Boylan**

**William Bryan**

**Matthew Bunn**

**Adam Fritzman**

**Reilly Gregorio**

**Robert Kempin**

**Keyla Marquez**

**Julia Oryszak**

**Jake Parrott**

**Jordan Parrott**

**AJ Thompson**

**Joshua Van Hemert**

**Julian Vereen**

**Caleb Via**

**Breeyonna Williams**

## **CONGRATULATIONS!!!!**



# SRMHS - NAF Academy of Engineering

## FALL 2016 "A / B" HONOR ROLL

Gabriel	Adamson	Mariah	Lassiter
Mackenzie	Belt	Michael	Mann
Logan	Bennett	Thomas	Mansfield
Akeem	Blalock-Cotton	Kiara	McKenzie-Perry
Sydney	Brown	Luis	Medina Martinez
Kendra	Canegata	Roman	Mitchell
Burns	Cooper	Kurtis	Nguyen
Kai	Dawson	Nathaniel	Orsak
Zachary	De Guzman	Gabriel	Otis
Seth	Dilday	Alexander	Perry
Nathan	Eckhoff	Braden	Peters
Riley	Emel	Joshua	Pil
Mahali	Frias Ponce	Andrew	Protz
Jordan	Gary	Lamirr	Powell
Jack	Gelm	Rogerick	Ray
Natalia	Guerra Quesada	Robert	Richards
Korbyn	Hackney	Brandon	Russell
Nile	Hargrove-Raphael	Lundy	Snell
McLean	Harris	Tyler	Toms
Sedric	Harris	Uriostegui	Mirian
Emari	Hill	Shivani	Vashi
Jala	Ivey	Sage	Weatherwax
Tyree	Jones	Michael	Webb
Abanoub	Kaheel	Ryan	Webb
Hyatt	Kneeley		

# CONGRATULATIONS!!!!

## Advisory Board Update

On February 13th we will have our night time Advisory Board meeting. Last semester's night meeting was a huge success. We will meet in the media center at 6:30. This is open to all partners and parents.

I know many of you would love to get involved but are not sure what you could do.

Here's a list of things you could do:

- Become a volunteer -  
As a volunteer you could be a guest speaker in a class, participate in mock interviews, help out with career readiness workshops or just help out in the classroom.
- Be a chaperone -  
We go on a multitude of Offsite Learning Opportunities and we are always in need of chaperones.
- Ask your company to offer field trips, job shadowing and/or internships.
- Join the Academy Board -  
Help set the direction of the academy by working with other parents and industry leaders who see the value in the academy.
- To volunteer for any of these opportunities or if you have any questions, e-mail Mr. Geraghty - [jgeraghty@wcpss.net](mailto:jgeraghty@wcpss.net)

### Important Links and Information

Mr. Geraghty - [jgeraghty@wcpss.net](mailto:jgeraghty@wcpss.net)

Mr. Welker - [mwelker@wcpss.net](mailto:mwelker@wcpss.net)

Mr. Barnes - [abarnes4@wcpss.net](mailto:abarnes4@wcpss.net)

Follow the Engineering Academy on Twitter  
[@SEengAcademy1](https://twitter.com/SEengAcademy1)

<http://southeastraleigheaab.weebly.com/>

### Key for the Academy Acronyms

PLTW - Project Lead the Way  
OLE - Off-site Learning Experiences

IED - Introduction to Engineering Design  
POE - Principles of Engineering  
DE - Digital Electronics  
AE - Aerospace Engineering  
CEA - Civil Engineering and Architecture  
EDD - Engineering Design and Development

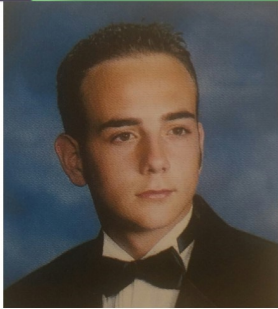
NAF - National Academy Foundation

CDC - Career Development Coordinator  
CA - Career Academy  
CDF - Career Development Facilitator





# Graduate Spotlight

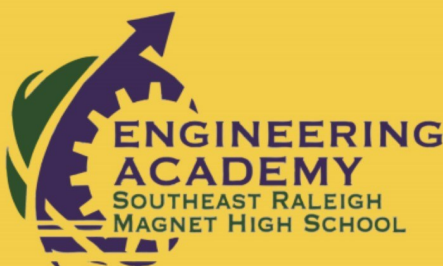


**Michael Roselli - Class of 2005**  
*Civil Engineer & Project Manager: Bohler*

“The engineering courses helped me bridge the gap between mathematics and practical applications. With opportunities to use technology in the lab, it’s an additional way to reinforce the concepts we learn in geometry with real world design challenges.”

“I acquired better perspectives of design by learning 2D and 3D projections. I had a huge head start in anything related to design software.”

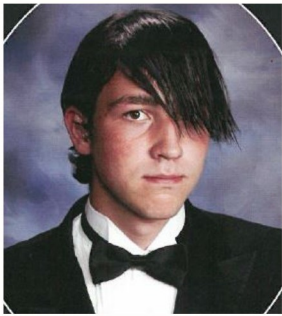
“AutoCAD has proven extremely useful and I use it in some form every day. But more importantly, since I learned AutoCAD I can adapt to other software packages easily today. Design has become much more dependent on software and will continue to do so in the future, so every opportunity to learn a new program makes learning the next one even easier.”



**BOHLER**  
ENGINEERING



# Graduate Spotlight



**Ian Brusso - Class of 2008**

*Aircraft Mechanic*

"I'm presently finishing classes to be an aircraft mechanic (A and P technician). The engineering classes at SE definitely reinforced and supplemented my existing technical interests and gave me a much broader base of starting knowledge than the majority of my peers (including many ex-military personnel)."

"After obtaining my certification in January, I intend to work as an independent contractor abroad."

"While at SE I was also involved in the FIRST Robotics team which provided many valuable hands on skills, as well as people skills, such as leadership, teamwork, time management, resource management, and effectively dealing with infuriating bureaucratic systems."

