

Nathan Rackers

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Summerfield, NC 27358
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EDUCATION

North Carolina State University, Raleigh, NC

First Year Engineer

anticipated graduation: May 2019

Minor in Music, Performance Emphasis

Northern Guilford High School, Greensboro, NC

graduated June 2015

Unweighted GPA: 4.0

5's on the following exams: AP Physics B, AP Chemistry, AP Computer Science A, AP Calculus AB

WORK EXPERIENCE

Automation Techniques Incorporated, Greensboro, N.C.

June – Aug. 2013 and 2015

Machine Design Intern

- Utilized AutoCad Inventor skills for design work
- Designed assembly parts in a soil pH testing robot for the NC Dept. of Agriculture
- Designed and tested prototypes of a medical Nephelometer for measuring suspended cell turbidity
- Wrote software algorithms to estimate the turbidity of cell samples using lookup table interpolation

LEADERSHIP

Principal Trombone in the Greensboro Symphony Youth Orchestra

2013 – 2015

Low Brass Section Leader in High School Marching Band

2013 – 2015

Coordinating Committee member for the organization of Summer Service Week

2012

HONORS AND ACHIEVEMENTS

AP Scholar with Honor Award

2015

National Honors Society, Member

2014 – 2015

National Beta Club

2012 – 2015

North Carolina Governor's School

June – Aug. 2014

Junior Marshal

June 2014

COMMUNITY INVOLVEMENT AND OTHER ACTIVITIES

- Greensboro Symphony Youth Orchestra (4 years)
- Marching Band (5 years)
- Track (5 years)
- Swim Team (2 years)
- Piano Performances- *played at church services and as background music for fundraisers*
- Church Youth Group (3 years)
- Polar Barefoot Run- *fundraised for shoes to go to children in Haiti*
- Juvenile Diabetes Fundraiser Walks (3 years)
- Greensboro Urban Ministry Food Drive Volunteer (2 years)
- Summer Service Week (2 years)- *repaired homes and built wheelchair ramps for people in need*