

Christopher G. Romanoski

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EDUCATION

Vanderbilt University, Nashville, TN **Class of 2019**

Bachelor of Engineering, *Mechanical Engineering*

Prospective Minors: Math, Computer Science

Relevant Coursework: Multivariable Calculus, Chemistry, Computer Science (MATLAB), Intro to Engineering

Oak Ridge High School, Oak Ridge, TN **Class of 2015**

Relevant Coursework: PLTW Engineering Courses, AP Physics B, AP Chemistry, AP Computer Science, AP

Physics C, AP Calculus BC, Linear Algebra, Multivariable Calculus, Differential Equation

ENGINEERING EXPERIENCE

Oak Ridge National Laboratory/Manufacturing Demonstration Facility **June 2015-August 2015**

- Served as engineering intern and research assistant in HERE program
- Responsible for preparing nickel-base superalloy samples fabricated using additive manufacturing techniques for metallography
- Tasked with examining build samples of an AM superalloy under an SEM and responsible for determining a correlation between build parameters and residual porosity in AM components

University of Tennessee/Y12 National Security Complex **June 2014-August 2014**

- Served on a team of 5 high school students tasked with validating, modeling, and predicting behavior of fluid flow through highly ordered nano-pillar arrays
- Published work on several mathematical models describing capillary flow through channels as well as observations made of a macro-scale FDM 3D printed demonstration

Relevant Skills: MATLAB, Java, AutoCAD, SolidWorks, Microsoft Office, Metallography, Woodworking

HONORS & AWARDS

- National Merit Scholar
- National AP Scholar
- Science Fair – “A Mathematical Analysis of the Wright Brothers’ Wind Tunnel Tests”, 2014
 - Southern Appalachian Science & Engineering Fair – Reserve Champion Sr. Div.
 - Intel International Science and Engineering Fair – Honorable Mention
- Junior Science and Humanities Symposium JSHS, D.O.D., 2015
 - Tennessee JSHS – 2nd Place
 - National JSHS – 3rd Place
- Tennessee Mathematics Competitions
 - 2nd Place Regional/ 3rd Place East TN /10th Place TN Pre-Calculus, 2014
 - 2nd Place Regional Algebra II, 2013
 - 1st Place Regional Geometry, 2012
- Oak Ridge High School Engineering Academy – Most Outstanding Student, 2012-2013

CAMPUS INVOLVEMENT & LEADERSHIP ROLES

- Vanderbilt Aerospace Engineering Club, *field engineer* **September 2015 – Present**
 - Utilize engineering knowledge and experience to design and build a rocket for the NASA student launch competition
- Vanderbilt Motorsports Club, *design team member* **September 2015 – Present**
 - Collaborate with a design team to design and construct drivetrain section of competition vehicle
- Vanderbilt Student Volunteers for Science, *mentor* **September 2015 - Present**
 - Provide interactive scientific experiments to engage local elementary students in science
- Knights of Columbus, *active member* **September 2015 – Present**
 - Fraternal group committed to serving the Catholic Church and the surrounding community
- Conquest Youth Ministry St. Mary’s Catholic Church, *leader and mentor* **August 2011-May 2015**
 - Led group of middle school boys in faith formation and community service projects