

Alan T. Van Dyke

Campus Address

11909 Carlton Rd, #209
Cleveland, Ohio 44106-2619

atv9@case.edu

440-452-8247

Home Address

41601 – 51st St.
Elyria, Ohio 44035-2415

OBJECTIVE Seeking a summer internship, with potential to lead to a full time position, in order to gain practical experience, knowledge, and valuable skills in the mechanical engineering field that will be useful in a full time career.

EDUCATION Case Western Reserve University

Cleveland, Ohio

Mechanical Engineering

GPA: 3.39/4.00

Bachelor of Science in Engineering, May 2011

Mechanical Engineering

Master of Science, May 2012

RELATED EXPERIENCE

NASA – Glenn Research Center *Research Intern* Brookpark, Ohio May 2010 – August 2010

- Assisted in testing and evaluating polymer matrix composite materials for various space applications involving thermal, physical, and mechanical properties as well as micro-structure analyses
- Assisted in characterization and evaluation of various organic materials in terms of outgassing, bond strength, and durability under various service exposure environments for the Sterling Radioisotope Generator
- Assisted in repair and general maintenance of lab equipment
- Assisted in assembly of space heat exchanger prototype

Case Western Reserve University *Research Assistant* Cleveland, Ohio May 2009 – May 2010

- Designed and built an experimental apparatus for determining thermal conductivity of aeroclay/aerogel materials
- Prepared and tested samples for thermal conductivity
- Created a Matlab program to analyze the data collected from the tests
- Analyzed the data collected using Matlab to determine the thermal conductivity of the samples

OTHER WORK EXPERIENCE

Lorain County Engineers *Road Crew* Elyria, Ohio June 2007 – Aug. 2007, June 2008 – Aug. 2008

- Responsible for setting up signage and directing traffic safely through construction zones
- Maintained public roadways within Lorain County

Lorain County Engineers *Survey Crew* Elyria, Ohio May 2008 – June 2008

- Operated and responsible for survey crew equipment and restocking survey crew supplies
- Researched deeds and miscellaneous property information to assist surveys

LEADERSHIP ACTIVITIES

Phi Kappa Tau Fraternity *Treasurer, House Manager* September 2009 – Present

- Directed relocation of the fraternity from university housing to greek life housing
- Manage the routine cleaning and maintenance of the fraternity house and preparation of the house for ceremonies

RELATED COURSEWORK

Undergraduate: Fluid and Thermal Engineering I-II, Design of Fluid and Thermal Elements, Analysis of Mechanical Element Design, Engineering Design, Mechanical Manufacturing, Machinery Mechanisms and Vibrations, Introduction to Microeconomics

Graduate: Transport Phenomena

COMPUTER SKILLS

Java, LabVIEW, Linux, MATLAB, Microsoft Office, SolidWorks, Windows XP/Vista/7

AWARDS & HONORS

Faculty Scholarship; Dean's Honor List: Fall 2007, Fall 2008; Case Alumni Association Scholarship Recipient

ACTIVITIES Case Camerata Chamber Orchestra