

HOME ADDRESS

5006 Landstar Way
Tampa, Florida 33647
United States

SCHOOL ADDRESS

2301 Vanderbilt Place
PMB 359205
Nashville, Tennessee 37235
United States

LANGUAGES

English (Native)
Hungarian (Native)
Spanish (Fair)

TECHNICAL SKILLS

MATLAB
COMSOL
Creo Parametric
Java
Python
LabVIEW
LaTeX
Microsoft Office
Excel VBA
Machining (*lathe, mill, bandsaw, grinder*)

RELEVANT COURSEWORK

Aerospace Propulsion
Gas Dynamics
Computational Fluid Dyn.
Heat Transfer
System Dynamics
Mechatronics
Modern Physics
Numerical Mathematics
Computing with Splines
Ordinary Differential Eq.
Linear Algebra

TAMAS KIS

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EDUCATION

Vanderbilt University | Nashville, TN **2016 - Present**
Mechanical Engineering and Applied Mathematics Majors | Physics Minor

- 3.92/4.00 cumulative GPA, 35 ACT
- Honors: Tau Beta Pi (Vice President), Dean's List (all semesters)

PROFESSIONAL/RESEARCH EXPERIENCE

Moffitt SPARK | Tampa, FL **Summer 2019**
Integrated Mathematical Oncology Intern

- Modeled the O_2 dependent secretion of IFN- γ by CTLs and its subsequent diffusion in a hypoxic tumor microenvironment, as well as the O_2 consumption of tumor cells
- Developed an IFN- γ dependent model for CTL migration to investigate the effects of intralesional vs. intravenous injections of CTLs in the context of adoptive cell therapy

Takarék Kereskedelmi Bank | Budapest, Hungary **Summer 2018**
Asset Liability Management Intern

- Performed market research and data analyses and wrote documents detailing how to perform various analyses
- Coded Excel macros to cut down data update time from ~2 hours of manual work to 30 seconds through Excel

The Berkeley Academy | Tampa, FL **Summer 2017**
Science Teacher

- Taught 45-minute-long science lessons to 3 seventh grade classes (10 students each) a day for 6 weeks, covering the subjects of basic coding, astronomy, and physics
- Wrote over 20 lesson plans, created ~50 other educational documents (PowerPoints, worksheets, etc.), designed 2 laboratory experiments

PROJECT EXPERIENCE

Vanderbilt Aerospace Design Laboratory | Vanderbilt University **Fall 2018 - Present**

- Member of highly competitive (6-time national champion) rocketry team which competes in the NASA Student Launch competition
- Designing, machining, and fabricating novel vehicle and payload systems that highlight major challenges in space exploration

Mechatronics Project | Vanderbilt University **Spring 2019**

- Designed and constructed a mechatronic system that autonomously reorients a wind turbine to face the wind, and measures and displays the wind speed, wind direction, and the voltage produced by the wind turbine

EXTRACURRICULARS

Vanderbilt Men's Club Water Polo | Vanderbilt University **Fall 2016 - Present**
Captain | President

- As captain: representative for 20-member team, responsible for providing coaching assistance during practice (6 hr/wk) and at 4-5 tournaments throughout the year
- As president: responsible for organizing/managing travel, home tournaments, logistics, and finances with university administration
- Helped develop high school water polo in the Nashville area by hosting high school tournaments, practices, and clinics at Vanderbilt

