

# Ryan J. Davitt

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## EDUCATION

- **Purdue University**, *West Lafayette, Indiana* 2020-present  
Bachelor of Science in Computer Engineering GPA: 3.18/4.0
  - **Relevant Completed Coursework:** ASIC Design Lab, Signals And Systems, C Advanced Programming, Python for Data Science, Data Structures, Electrical Engineering Fundamentals I & II, Microprocessors, Physics: E&M, Calculus I, II, III, & Differential Eq.
  - **Relevant Coursework Underway:** Probabilistic Methods (Summer Coursework)
  - **Awards/Honors:** Dean's List (Fall 2020); Distinguished Scholar (Fall 2020); Eli Shay Electrical Engineering Scholarship (2021)

## EXPERIENCE

- **Purdue Orbital**, *Payload Team, Purdue University* Fall 2022-Spring 2023
  - Researched insulation types and produced heat transfer models with payload's characteristics; developed multiple electrical systems including a heating system with custom Printed Circuit Boards and microprocessor code; Created CAD models for manufacturing for a payload chasis
- **Baysinger's Additive Mfg. (BAM)**, *3D Printing Specialist, Dallas, Texas* Summer 2022
  - Ran and maintained 24 Prusa MK3S+ 3D Printers; assembled 1 Prusa Multi-Material Upgrade (MMU) and maintained 13 already built MMUs; designed custom parts to be printed for facility usage; interfaced with a separate, online team for customer service purposes
- **Unique Software Dev. (USD)**, *Computer Eng. Intern, Dallas, Texas* Summer 2021
  - Built and maintained 3D-printing farm; collaborated with freelance designers; designed, aided in designing, and manufactured parts for in-house projects
- **Mathnasium**, *Instructor, Dallas, Texas* Fall 2019-Summer 2021
  - Tutored K-12 students (taught up to Calculus I); learned to work with all ages, including communicating with parents, as well as in a team of fellow instructors

## TECHNOLOGY INTERESTS / SKILLS

- Computer Prog. (Proficiencies: 1.5 year's exp. in C, 3 years' exp. in Java, 1 semester's exp. in Python)
- Computer Hardware (experience with Oscilloscopes, soldering, etc.)/PC Building
- Robotics (4 years of FIRST FTC/FRC exp.; mentored FRC 5242 in 2021 season)
- 3D Modeling/CAD (Proficiencies: Autodesk Inventor and Fusion 360)
- 3D Printing (4 years of hobbyist exp.; 2 summers of professional exp. with USD & BAM)
- Music composition and digital music production

## OTHER INTERESTS / ACTIVITIES

- **Purdue Bands**, *Percussionist, Purdue University* Fall 2020-Fall 2022
  - Learned how to quickly collaborate effectively with a new, small-sized team (due to bands changing every semester); gathered further practice with receiving and giving constructive criticism
- **Rydog Music Commissions**, *Music Composer/Website Developer, Online* Spring 2021-present
  - Gained insight to interfacing directly with the customer; catered individual solutions for each client; used 3 different instruments for most commissions, expanding musical skill set
- **Nightwing Vs. Redhood: Brothers at War**, *Producer/Cinematographer, Texas* Fall 2019-present
  - Worked efficiently with a medium-sized team (upward of 15 cast/crew); compartmentalized roles to better and more effectively perform well in all departments of the film; learned to quickly incorporate new techniques for visual effects, audio processing, etc
- **The Pulse Sports**, *Multimedia Editor, Online* Fall 2020
  - Used limited resources (pre-recorded camera angles) to develop an improved product; communicated exclusively online with superior and co-workers to orchestrate assignments

Note: Underlined portions are hyperlinks to relevant webpages