

# Alex J Romanowski

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## EDUCATION

Lehigh University, Bethlehem, PA

August 2019 - May 2024

Unweighted GPA: 3.66/4.0

Bachelor of Science- Integrated Business and Engineering Honors Program: Finance

Minor: Mechanics of Materials

Honors: Lehigh University Trustees' Scholarship, Dean's List

## EXPERIENCE

PV Solar Site Designer and Land Acquisition Intern, Active Solar LLC.

May 2022 - Current

- Designed 50+ conceptual plans for 5MW solar systems in CAD/Helioscope using input from the land team
- Performed financial/output analysis on 5 single axis tracker systems to determine profitability relative to existing fixed tilt racking. Presented findings to team, recommended best system and additional software
- Cutting survey costs: Researched different GIS platforms in order use public DEM data. Learned ArcGIS to perform slope/cut & fill analysis on potential sites. Saved \$5k per site + understood earthwork costs
- Manufactured beam connections, modified existing beams, and installed beams on steel structure

Solar Thermal Designer and Installer (part time), E2G Solar LLC.

May 2022 - August 2022

- Designed and installed a solar hot water pool system for an apartment complex pool. Re-ran plumbing for existing solar hot water system and pressure tested the loop to recommission the system.

Land Intern, D.R Horton Inc.

May 2021 - August 2021

- Worked on a team of 10 in the land acquisition department to develop a steady flow of incoming land deals and submissions to corporate for approval of multi-million-dollar, master planned communities
- Conducted market and financial analysis to determine product placement and deal viability based on location, buyer demographic, and past market absorption, costs, and expected sales prices

Co-founder- Head of Product Design and Sales, MycroActive Microscopes

April 2019 - August 2020

- MycroActive uses a microscope shell and slide management/notation app to make the microscope experience more interactive than virtual microscopes and more affordable than traditional microscopes
- Pitched our project to a panel of entrepreneurs and won three pitch competitions at Lehigh
- Interviewed 15+ middle school teachers to receive feedback on our design, redesigned out prototype to better suit the needs of the education industry, develop lesson plans, and schedule two pilot programs

Construction Estimator & Laborer, Sample Properties Inc., Tampa, FL

May 2014 - August 2019

- Estimated material quantity and cost for 3,000-6,000ft<sup>2</sup> custom homes from foundation to paint schedule
- Engineered a temporary drainage system using a series of pumps for a house in a low elevation area
- Worked independently on 25+ jobsites over five summers to ensure they passed inspection, completed punchout lists, took deliveries of material, and made material returns

## LEADERSHIP

VP of Finance and Operations, Sigma Phi Delta Engineering Fraternity, Lehigh University

April 2021 - May 2022

- Budgeted \$40k for 250+ events, bolstered the internal auditing system, oversaw social and recruitment board
- Worked alongside other members of exec and the university to transition our organization into a chapter house on campus and create an LLC for our alumni association

President, Integrated Business and Engineering Honors Program, Lehigh University

August 2021 - May 2022

- Oversee 5 different committees to ensure the students in IBE get the most out of their college experience
- Oversee planning of networking event with 15+ companies, planning of social events and mentor program

Recruitment Chairman, Sigma Phi Delta Engineering Fraternity, Lehigh University

November 2019-February 2021

- Organized 50 60-person events: hosted information sessions, cooked large dinners, scheduled bowling, etc.
- Worked with a budget of \$3,000 and lead 10-person recruitment board to select a new member class of 17

## SKILLS & INTERESTS

Software/Programming -ArcGIS, SOLIDWORKS, CAD, MATLAB, R, Helioscope, SIFT, Excel, PowerPoint, Minitab

Interests - Sustainable Development, Project Management, Construction, Engineering and Design, Woodworking