



# Brandon Woo

Industrial and Systems Engineering - Minor in Business  
Virginia Polytechnic Institute and State University  
Blacksburg, VA | May 2023  
Dean's List 2020, 2021

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## Experience

### **InMotion US - Senior Design Project**

**Aug 2022 - May 2023**

- Evaluated current quality systems and manufacturing processes to determine production KPIs
- Developed quality dashboards using QlikSense to improve real-time decision making
  - Researched design heuristics, created wireframes, and configured SAP data to be usable
  - Focused on single line with 7+ stations while developing framework to scale to other products
  - Coordinated with parent company to explore hardware implementation and potential enterprise solution
  - \$22,000+ estimated in yearly savings on material cost alone

### **School Simplified - Chief IT Officer, Executive Director of Learning**

**Jan 2022 - May 2023**

- Led the IT department and divisions including Website Dev, Bot Dev, and Information Systems
- Advanced organization's mission and collaborated to advance its post-pandemic strategy
  - Affected 62,000+ community members, 550,000,000+ impressions
  - Assisted in planning the operations of 10+ departments/sub-organizations, utilizing matrix structure
- Transitioned into the position of Executive Director of Learning, leading the business development of education products
  - Created new Mission, Vision, Values and created future branding strategies
  - Developed long term strategy and established 12, 9, 6, and 3 month goals for IT and two SaaS product divisions
  - Learned and developed the implementation of Agile framework
- Created new Data Architecture and led production of HRM software supporting 300+ staff members
- Evaluated UI/UX elements of various services; advised and ensured a consumer-focused product

### **Society of Asian Scientists and Engineers at VT - Treasurer, External Vice President**

**June 2021 - May 2023**

- Led 2022-2023 External team in outreach, sponsorship, and planning events
  - Coordinated contact with 45+ organizations
- Established budget and managed funds of \$20,000+ each year
- Collaborated with other officers towards advancing professional development of 138 members and other students
  - Boosted event attendance and membership by 50%+
- Worked with 7 others to coordinate CAMEO career fair with 100+ companies and 1000+ students attending

### **Deloitte 2021, 2022 Data Analytics Competition Winner**

**April 2021, 2022**

- Analyzed, interpreted, and visualized data in order to create novel solutions to competition proposed problems
- Redefined 2022 metrics of success for NBC primetime viewership for International Olympic Committee
- Proposed solution to 2021 Covid-19 risk mitigation based on WHO precedence and population metrics

### **Ingalls Shipbuilding - Industrial Engineering Intern | Process Improvement**

**May 2021 - July 2021**

- Worked with engineers in process improvement projects ranging from safety improvements to extensive time savings
  - Created ROIs and worked with other interns to facilitate the implementation of 10+ new processes
- Gathered and analyzed worker data to propose solutions to optimize the flow of shipyard tools and material
- Observed Quality Assurance procedures and its effects on bottlenecks in welding and bulkhead assembly processes

### **Startup: Commercialization - Graphene Startup**

**Jan 2021 - May 2021**

- Simulated creating a business via a novel Graphene production process
- Researched R&D, performed market (competitor) analysis, and experienced pitching to investors.

## Skills, Certifications

### **Six Sigma Green Belt Certification**

**Microsoft Office:** Microsoft Excel, Microsoft Word, Microsoft Access, Microsoft Powerpoint

**Software/Languages:** MATLAB, Visual Studio, Gurobi Python, Minitab, Python, Java, R, SQL

**Other Skills:** Project Management, Leadership, Communication, Ideation, Problem Solving, Design