Examples of Student Engagement and Success Related Activities

1. Supportive Educational Environment
   A. Made use of services to support academic success when needed
   B. Studied with other students
   C. Used services that helped make connections and thrive socially
   D. Made special friendship with one or more students
   E. Used information on financial aid and scholarship related resources
   F. Received any support needed to cope with non-academic related resources
   G. Used information provided on policies and procedures to avoid mistakes

2. Quality Educational Program
   A. Made use of information provided on requirements for degree program
   B. Followed recommended sequences of courses
   C. Designed course schedule early on to accommodate needs
   D. Signed up for courses only after taking prerequisite courses
   E. Used course syllabi/catalog to understand course objectives
   F. Use out-of-class reading to verify that latest concepts taught in course
   G. Had high expectations for instructors
   H. Instructors met needs and were approachable and encouraging
   I. Had quality culminating senior design or other capstone project experience

3. Challenging Academic Program
   A. Received special recognitions and awards
   B. Took advantage of Research Experience for Undergraduates (REU)
   C. Exhibited project results and competed against Mason’s other students
   D. Attended courses/sections designed for high quality/competitive students
   E. Made presentations at regional and national conferences
   F. Used advanced course substitutions/waivers options for requirements
   G. Published papers in scholarly papers journal
   H. Exceeded requirements for some courses

4. Active and Collaborative Learning
   A. Tutored by or taught by other students
   B. Tutored other students
   C. Asked instructor questions in class and online
   D. Asked students questions in class and online
   E. Had classes where the instructor asked students questions in class
   F. Had opportunities for in-class group project work experiences
   G. Had opportunities for out-of-class group project work experience
   H. Participated in group study sessions
   I. Arranged group study sessions

5. Student-Faculty and Student-Student Interaction
   A. Assumed leadership role(s) within student organizations
   B. Initiated start-up of student organization or service related organization
   C. Designed proposals for resources to support academic projects/activities
   D. Worked with faculty/staff on non-academic activities
   E. Discussed career plans with faculty or staff
   F. Discussed grades or assignments with an instructor
   G. Used instructor and teaching assistant office hours
   H. Developed good relationships with faculty member(s)
   I. Communicated with academic advisors during office hours via email

6. Enriching Educational Experiences
   A. Interacted with practitioner(s) in chosen field
   B. Acquired job or work-related knowledge and skills
   C. Had practicum, internship, field experience, co-op, etc.
   D. Volunteered at special VSE events and programs
   E. Had serious conversations with students of different race or ethnicity
   F. Had serious conversations with students of different political/personal values
   G. Independent Study” or other “self-design” educational experience
   H. Took advantage of “special topics” course opportunities
   I. Worked with faculty/researchers on non-course projects
Highlighted Accomplishments in Sample Student Resumes

The VSE Undergraduates whose resumes are used as samples have all landed great opportunities after graduating. Comparison data of activities included in the various resumes indicate the varied ways that VSE students pursued opportunities here at Mason and the Mason community to distinguish themselves from their peers.

3. Challenging Academic Program

A. Received special recognitions and awards
B. Entered group competitions against other universities
C. Took advantage of Research Experience for Undergraduates (REU)
D. Exhibited project results and competed against Mason’s other students
E. Attended courses/sections designed for high quality/competitive students
F. Made presentations at regional and national conferences
G. Used advanced course substitutions/waivers options for requirements
H. Published papers in scholarly papers journals
I. Exceeded requirements for some courses

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4. Active and Collaborative Learning

A. Was tutored or taught by other students
B. Tutored other students
F. Had opportunities for in-class group project work experiences
G. Had opportunities for out-of-class group project work experience
H. Participated in group study sessions

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5. Student-Faculty and Student-Student Interactions

A. Assumed leadership role(s) within student organizations
B. Initiated start-up of student organization or service related organization
C. Developed proposals for resources to support academic projects/activities
D. Worked with faculty/staff on non-academic activities

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6. Enriching Educational Experiences

A. Interacted with practioneer(s) in chosen field
B. Acquired job or work-related knowledge and skills
C. Had practicum, internship, field experience, co-op, etc.
F. Independent Study” or other “self-design” educational experience
G. Took advantage of “special topics” course opportunities
H. Worked with faculty/researchers on non-course projects

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✓ means exceptional attainment in an area.
Student A
Career Path: Attending Law School to become a Patent Attorney

EDUCATION

George Mason University Fairfax, VA
Bachelor of Science in Electrical Engineering
Completed a sequence in Digital and Computer Science
GPA: 3.7/4.00
- Information Technology & Engineering Student of the Year Award recipient (20XX - 20XX)
- AFCEA Scholarship recipient, Fall 20XX and Spring 20XX
- Student Research Grant recipient, Summer 20XX
- President, Society of Women Engineers (20XX - 20XX); Member (20XX - present)
- Vice President, Society of Women Engineers (20XX – 20XX)
- Co-Vice Chair of Information Technology, Student Government (20XX – 20XX)
- Co-Chair, 20XX Engineers Week

PUBLICATIONS


INTERNSHIP AND PROFESSIONAL EXPERIENCE

L-3 Communications, Titan Group Corporation Reston, VA
Summer Intern, 20XX and 20XX
- Developed policies and procedures for the management of intellectual property of the enterprise. Created a policy for managing patents and trademarks for the business unit. Also created the procedures for applying for patents and trademarks, including the maintenance of the patents.
- Developed a database in MS Access to input, trace and maintain all existing intellectual property and those items in process.
- Worked directly for the Senior Vice President of Business Development, Applied Technology Sector, a $300M business unit
- Designed and developed a web page to support the business development activities of the business unit
- Supported technology programs by attending technical discussions and developing documentation for use by the business development staff
- Interacted with patent attorneys to support the intellectual property issues of the Sector. Developed a process for identifying potential technical ideas that would be eligible for patent or trademark application. Documented and tracked the patents in process and those already granted

George Mason University Information, Technology & Engineering School Fairfax, VA
Peer Advisor / Tutor, Fall 20XX and Spring 20XX
- Tutor and advise freshmen and sophomores in appropriate level courses, which include: engineering, computer science, physics and calculus courses.
- Help run IT&E events
- Act as a student ambassador during recruitment events both on and off campus
Student B

Career Path: Working for a large New York engineering firm that is paying for student’s full time graduate studies

Objective: Seeking a full-time position in Electrical Engineering with a special interest in digital logic.

Education:

B.S. in Electrical Engineering, Overall GPA 3.07
George Mason University, Fairfax, VA

AS in Computer Science, May 20XX
Northern Virginia Community College, Annandale, VA

Computer Skills:
Languages and Software: VHDL, Altera ActiveHDL, Mentor Graphics-ModelSim, Xilinx ISE, Matlab, C++, Pspice,
Assembly Language ,Visio,MS Word, Excel, PowerPoint, Maple, Access

Operating Systems: XP, 2000,Windows NT and some Linux

Projects:

Wireless High-Definition Video Streaming Vehicle
Senior Design Project
• Researched and put together design concept along with other members
• Put together design of MPEG2 compression scheme for implantation on an FPGA board
• Designed, wrote, tested and debugged FPGA modules for Video compression

Work Experience:

Intern/Research Assistant
Microwave Technologies Inc, Burke, VA November 20XX – present

• Write and debug FPGA modules for radar systems
• Test radar project prototypes and makes changes to design as needed
• Maintain and update all project details in various databases

System Administrator/Junior Lab Tech
Electrical and Computer Engineering Department, George Mason University, Fairfax, VA June 20XX – November 20XX

• Maintain a domain of three servers, running Windows Server 2003 operating system. Handle over 600 user accounts, check the security status of the servers, and push Windows and virus definition updates to computers on the domain.
• Provide technical support for over 100 computers in labs and offices.
• Created and tested a clone for the engineering department’s computer labs saving 30 hours per lab cloned.

Help Desk Technician
Apptis/Planet Gov
Served the United States Securities and Exchange Commission March 20XX-May 20XX

• Provide phone/desk-side support with various PC and software issues
• Open, update and close problem tickets using HEAT software
• Supported Windows NT/2000/XP operating systems
• Built, repaired and shipped PCs and laptops for regional offices
• Troubleshoot various network issues including network printers

Leadership:
• Program Chair for IEEE 20XX-20XX
• Vice President for the Society for Hispanic Professional Engineers 20XX-20XX
Student C

Career Path: Accepted employment with a Northern Virginia engineering firm in order to develop entrepreneurship skills and start own company

EDUCATION
George Mason University, Fairfax, VA,
- B.S. degrees in Electrical Engineering (GPA: 3.62) and Computer Science (GPA: 3.78) with a minor in Math.

TECHNICAL EXPERIENCE
Software
- Matlab, Maple
- C/C++, JAVA, and HTML
- VHDL, PSPICE
- Various Assembly

Relevant Coursework
- Subversion, SourceSafe
- SQL
- MS Word, Excel, Visio
- MS PPT, Access
- Linux, Unix, Windows

- FPGA & Microcontrollers
- Microelectronics
- Control & Signal Theory
- Communication Theory
- Artificial Intelligence
- Compilers
- Analysis of Algorithms
- Operating Systems
- Databases
- Electromagnetics

RELATED PROJECTS
ZAI Small Synthetic Aperature Radar (SmallSAR) prototype
- SmallSAR is an ultra wideband radar system capable of detecting landmines while mounted on a moving land or aerial vehicle. In this project I have been responsible for the assembly and testing of the ground-based prototype, building and maintaining the code base for the software used in testing and simulation, and writing monthly progress reports.

The George Mason Unmanned Aerial Vehicle (GMUAV)
- A senior design team including myself and three other students designed and tested a propeller-based fixed wing aircraft capable of GPS-waypoint navigation, basic spatial navigation, and live-video transmission. The GMUAV utilized an M68HC11E9 microcontroller, GPS receiver, solid-state compass, accelerometer, wireless camera, and sonar range finder all mounted in a styrofoam plane with a motor and servos.

GMU Sensor Management Project (https://zonkil.gmu.edu/gmusms/)
- GMU SMS was a sensor management project funded by Lockheed Martin. As a research assistant I designed and implemented various tactical displays using Matlab in a Linux environment. The displays were used as visual aids to assess the performance of the sensor manager. During a multi-aircraft simulation the displays showed where a specific aircraft’s sensors were searching, aircraft positions on a pixeled map, and aircraft heading all in real-time.

WORK EXPERIENCE
Research & Development Engineer, Zimmerman Associates Inc. (ZAI), Feb 20XX – Present
- Responsible for participating in various sponsored radar projects with a small group of experienced engineers.
- I have been responsible for aiding in the design, assembly and simulation of three radar projects.
- Required to generate monthly project reports and review SBIR/STTR postings for potential proposals.

Undergraduate research assistant, George Mason University, Feb 20XX – Mar 20XX
- Gained experience in Matlab development, Linux and SQL.
- Created reports and supporting documents used in monthly progress reports and final report to the sponsor.

Peer Advisor & Math Tutor, Volgenau School of IT&E at George Mason University, Sep 20XX – May 20XX
- As a Peer Advisor: General Engineering, Electrical Engineering, Computer Science, Calculus, and Physics.
- As a Math Tutor: Algebra, Discrete math, Calculus, Differential Equations, and proofs.
  (Jan XX-May XX)

United States Marine Corps, Aviation Supply Expeditor (MOS 6672), Sep 19XX- Sep 20XX
- Worked to ensure successful flight readiness for over 5 navy vessels during Operation Enduring Freedom.
- Supervised the daily duties of twenty-one individuals, achieved rank of Sergeant.

LEADERSHIP SKILLS AND AWARDS
- President of the GMU chapter of the Institute for Electrical and Electronics Engineers (IEEE)
- Founder/President of the Association for Leadership in Entrepreneurial Engineering and Technology (ALEET)
- Recipient of AFCEA NOVA, ITEA Bell, GMU Bannister scholarships.
Student D

Career Path: Pursuing graduate studies in Information Security via Mason’s Bachelors/Accelerated Masters option.

PERSONAL STATEMENT
Have the ability to multitask and meet deadlines in a fast-paced work environment. Possess leadership skills, diligence, and dedication. Work well in groups and am also a self starter. Enjoy solving complex problems. Possess effective writing, listening, and oration skills. Embrace learning new things. Speak Japanese at a conversational level.

EDUCATION
Bachelor of Science, Summa Cum Laude, Information Technology, George Mason University, concentration in Information Security and Network Administration
Cumulative GPA: 3.96

Associate of Science, Cum Laude, Computer Science, Onondaga Community College, May 20XX
Cumulative GPA: 3.44

WORK EXPERIENCE
Research Assistant, C4I Center January 20XX - Present
• Research and assist in conducting experiments.
• Perform statistical analysis

Peer Advisor, George Mason University September 20XX – December 20XX
• Assisted students from the Information Technology & Engineering Department from various disciplines with Computer Science and Calculus.

Undergraduate Peer Monitor, George Mason University January 20XX – May 20XX
• Assisted students with understanding concepts for an Information Security class.

ORGANIZATIONS / ACTIVITIES
• Bachelor of Science Information Technology Advisory Board
• Armed Forces Communications and Electronics Association
• Golden Key International Honour Society

AWARDS
• Outstanding Service Award, George Mason University, May 20XX
• Distinguished Academic Achievement Award, George Mason University, May 20XX
• AFCEA NOVA 20XX Scholarship Award
• AFCEA NOVA 20XX Scholarship Award

QUALIFICATION HIGHLIGHTS
Software Applications: MS Office, Metasploit, Cain & Abel, Wireshark, SPSS 15, & Nessus
Operating Systems: Windows XP/Vista, Linux
Computer Languages : Java, HTML, SQL
Objective
Seeking a full time employment as an Electrical Engineer with an interest in control systems, hardware and software development.

Education
B. S. Electrical Engineering, George Mason University, Fairfax, VA

Projects
- Creating a high definition video streaming vehicle, it will be able to stream high definition video wirelessly in real time, using FPGA technology. The camera will be mounted on a suitable remote controlled vehicle.
- Designed an inductance simulator using operational amplifiers, and capacitors to get an inductance of 10.0 mH.
- Designed an RC band pass amplifier with maximum gain of 20 at 100 Hz frequency, with a bandwidth of 20 Hz.
- Designed a Control Processing Unit using micro program implementation for the CPU instruction sets.
- Fabricated a semiconductor silicon wafer.

Technical Skills
Design Programs: Matlab, PSpice, VHDL
Technical Languages: Java, C++
Applications: Power Point, Excel, MS Word, and Photoshop
Fluent in Spanish

Relevant Courses
Classical Systems and Control Theory
Electromagnetic Theory
Micro Electronic Fabrication
Robotics
Communication and Information Theory
Neural Engineering

Related Experience
WebSphere Level II Developer Support, IBM Inc. Austin, TX
- Developed a stand alone program that checked accuracy of procurement status processes in Comprizon Suite application.
- Tested functional capabilities for new release versions of Comprizon Suite application.
- Prepared requirement documentation for upgrades to improve Comprizon Suite application, by including a process scheduler to benefit user interaction.

Java Developer Internship, CACI Inc. - Chantilly, VA
- Assisted an instructor in the course of Mathematical Topology, for a five week program that taught high school students college level material.
- Taught about 25-30 high school and middle school students in Merrimack College, MA.
- Developed weekly learning progress reports which were submitted to program director.

Teaching Assistant, Center for Advancement of Hispanics in Science and Engineering Education (CAHSEE)
- Providing unmatched customer service while increasing unit production sales.
- Accurately and efficiently processing of monetary transactions.
- Inventory control and end of day cash balancing.

Leadership
President-Society of Hispanic Professional Engineers (SHPE) Present
Vice-President, Society of Hispanic Professional Engineers (SHPE) 20XX- 20XX
Member of Institute of Electronic and Electrical Engineers (IEEE) 20XX- Present
Founding President, Circle K International chapter at George Mason (CKI) 20XX- 20XX

Awards
President of the Month award for Region IV, SHPE September, 20XX
Semester Leadership Award for Region IV, SHPE January, 20XX