

SOFIE WARE

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U.S. Citizen

EDUCATION

CARNEGIE MELLON UNIVERSITY Pittsburgh, PA

Bachelor of Science in Electrical and Computer Engineering

Minor: Chinese Studies

Overall GPA: 3.4/4.00

MAY 20XX

COMPUTER SKILLS

Programming Languages: C/C++, Java, Python, System Verilog, Verilog, MATLAB

Software: Git, MS Office, SolidWorks, AutoCAD, Revit, AGi32, Cadence

Operating Systems: Apple Macintosh OSX, Microsoft Windows OS, Linux Ubuntu

Foreign Languages: Mandarin (Chinese)

WORK EXPERIENCE

CARNEGIE MELLON UNIVERSITY CYLAB Pittsburgh, PA

Summer Research Software Intern

Summer 20XX

- Accomplished autonomous flight using GPS Waypoints for A.R. Drone 2.0
- Assisted in human detection algorithms using thermal camera
- Contributed to long-range radio drone-to-drone communications

M.C. DEAN Dulles, VA

Design Engineer Intern

Summer 20XX

- Designed lighting circuits in 2 current projects using AutoDesk AutoCAD and Revit
- Performed lighting calculations and analysis using AGi32
- Conducted over 20 pages of takeoffs for cost analysis
- Corrected over 30 pages of lighting diagrams and circuiting

GENERAL DYNAMICS INFORMATION TECHNOLOGY Fairfax, VA

Technical Summer Intern

Spring 20XX

- Developed desktop virtualization solutions for 2 government contracts
- Involved in pitching Email as a Service (EaaS) to 3 U.S. government agencies
- Performed a market analysis in the Federal Space for Cloud technology and desktop virtualization solutions

CARNEGIE MELLON UNIVERSITY Pittsburgh, PA

Computing Skills Course Instructor, Computer Education

August 20XX – May 20XX

- Instructed required computer skills course for incoming freshmen
- Worked with and evaluated students to promote maximum computing utilization

PROJECTS

Road Sign Recognition, Digital Communication & Signal Processing System Design

Spring 20XX

- Designed and implemented a road sign recognition algorithm on a TI C67 DSP
- Presented project at the Carnegie Mellon Undergraduate Research Symposium

Analog Circuit Design and Analysis, Electronic Devices and Analog Circuits

Fall 20XX

- Participated in a series of hands-on labs to build and operate analog circuits
- Gained experience in circuit and component modeling, amplifiers, filters and signal detection and processing

LEADERSHIP

OM – Spiritual Organization, President:

Apr. 20XX – present, Secretary: Jan. 20XX – Mar. 20XX

Office of the Dean of Student Affairs

• Planning Committee, Take Our Children to Work Day:

August 20XX – present

• Volunteer, Niteline Information Resource/ Crisis Control Phone Line:

August 20XX – present

• Planning Committee, Mosaic Annual Conference on Women's Issues:

20XX – 20XX

Society of Women Engineers, Annual Winter Semiformal Chair:

April 20XX – March 20XX

HONORS

Dean's List, College of Engineering: Fall 20XX

Sony Scholarship, 20XX

Paula E. Merr

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Chemical Engineering, May 20XX
Double Major in Biomedical Engineering
Overall GPA: 3.15/4.0

RELEVANT EXPERIENCE

Merck & Company, Elkton, VA
Global Vaccine Technology and Engineering Intern, Summer 20XX

- Optimized shakedown, performed Operational Qualifications and revised P&IDs on four chromatography columns (\$250k each) to be used in Gardasil® downstream process
- Gained experience with DeltaV automation interface for large-scale chromatography column packing
- Trained in clean room manufacturing techniques and cGMP practices

Koppers, Follansbee, WV
Process Engineer Intern, Summer 20XX

- Conducted process studies to identify bottlenecks and to recommend process improvements
- Implemented lockout/tagout measures to ensure safety of workers when equipment is not in use
- Created flowcharts of various processes in the plant using AutoSketch

Research Experience for Undergraduates (REU), Carnegie Mellon Pittsburgh, PA
Undergraduate Researcher – Materials Research Program, Summer 20XX

- Measured biocompatibility of iron nanomaterials with various coating combinations in cancer cells
- Gained experience in cancer research, nanotechnology, and professional research practices

PROJECTS

Teapot Project, Transport Lab, Spring 20XX

- Improved heating time for commercial teapot design by 20% (Team of five students)
- Led fabrication and machine shop communication and also collaborated on design of teapot

Capsaicin Analysis Project, Chemistry Lab, Spring 20XX

- Designed and performed an experiment to determine the quantity of capsaicin in peppers and salsas using reversed-phase HPLC (Team of four students)

ADDITIONAL EXPERIENCE

Cohon University Center, Carnegie Mellon Pittsburgh, PA
Information Desk Assistant, Fall 20XX – Spring 20XX

- Answered questions of visitors to the University and helped with resources
- Maintained room schedule and facilitated needed equipment

LEADERSHIP

Historian/Selections Chair, Lambda Sigma National Honor Society, Fall 20XX – Spring 20XX

- Reviewed new freshmen applications and organized an induction ceremony for 30 incoming new members
- Managed alumni relations and led the Personal Relations Committee by producing physical and virtual advertisements for service events

SKILLS

Laboratory: organic synthesis & purification, HPLC, atomic absorption
Instruments: gas absorber, rheometer, NMR, FTIR, UV/VIS, GC/MS
Computer: MathCAD, MATLAB, SIMULINK, ImageJ, AutoSketch
Spoken Languages: Fluent in Spanish; Conversant in French

ACTIVITIES & HONORS

Varsity Tennis Team, 20XX – present
Alpha Beta Gamma Sorority, 20XX – present, House Manager, 20XX – 20XX
Tau Beta Pi, Engineering Honor Society, 20XX – present
American Institute of Chemical Engineers, (AIChE) 20XX – present
College of Engineering Dean's List, Fall 20XX, Spring 20XX
Andrew Carnegie Scholarship, Fall 20XX – present

MANNY FACTURE

Current: SMC 123, 5032 Forbes Avenue, Pittsburgh, PA 15289

Permanent: 3521 Second Avenue, Westford, MA 01881

Cell: 412.111.2222 **Email:** mfacture@andrew.cmu.edu

LinkedIn: www.linkedin.com/in/mfacture

EDUCATION

Carnegie Mellon University Pittsburgh, PA

Bachelor of Science in Mechanical Engineering, May 20XX

Double Major in Biomedical Engineering

Overall GPA: 3.0/4.0

RELEVANT EXPERIENCE

Procter & Gamble Manufacturing Company, Engineering Intern, Lima, OH Summer 20XX

- Conducted line trials to determine plant capability and made recommendations for noise mitigation
- Implemented a daily management system for managing scrap in order to reduce weekly accumulation
- Commended by supervisor for completing projects 3 weeks ahead of schedule

PROJECTS

Suitcase with Vacuum Pump, Design II, Fall 20XX

- Developed and built a suitcase with a vacuum pump that removed excess air to increase packing capacity by up to 50%, allowing travelers to bring more personal items per trip

Temperature Controlled Shipping Unit, Spring 20XX

- Designed and analyzed with FEA a shipping container that can bring a biospecimen container to 4°C within 10 minutes
- Devised the system such that it is functional in 60°C ambient temperature

Swinging Gripper, Design I, Fall 20XX

- Led a team of five people to create a robotic gripper that used a small motor torque to hold onto a billiards ball through one full swinging motion
- Constructed a 3D representation of the gripper in SolidWorks and ran stress simulation on the model

Astronaut's Coat Rack, Design I, Fall 20XX

- Designed a coat rack with mass and support constraints to sustain a load in space
- Created a design that could carry three times the required load with an acrylic structure that weighs less than 10 grams.

Head Mechanic and Buggy Chairperson, Pi Kappa Alpha Fraternity, 20XX-present

- Customized and built a gravity racer, out of composite materials, for annual University racing competition
- Decreased race time by more than 5 seconds with design of new steering

RELEVANT COURSES

Manufacturing Sciences

Mechanical Systems Experimentation

Fuel Cell Systems

Cellular Mechanics

Engineering Statistics and Quality Control

Engineering Graphics

LEADERSHIP

Vice-President, Tau Beta Pi (National Engineering Honor Society), Spring 20XX-present (Member since Fall 20XX)

- Plan several outreach and educational events in the Pittsburgh area to bring awareness to the importance of STEM

ADDITIONAL EXPERIENCE

Carnegie Mellon University, Desk Attendant, Pittsburgh, PA Fall 20XX-Spring 20XX

- Checked students' identification to ensure the safety of the residence hall students

SKILLS

Software: Microsoft Office, MATLAB, Solidworks, Creo Pro/E, Autodesk Inventor, ANSYS, ADAMS

Machines: Mill, Lathes, Drill Press, Band Saw

Spoken Languages: Fluent in French; Conversant in Spanish

ACTIVITIES & HONORS

Pi Kappa Alpha Fraternity, 20XX-present

Men's Track and Field Team, Carnegie Mellon, 20XX-present

American Society of Mechanical Engineers (ASME), 20XX-present

Comp O. Site

mse@andrew.cmu.edu (412) 222-1212 (Cell)
U.S. Citizen

EDUCATION

Carnegie Mellon University, Pittsburgh, PA

B.S. in Materials Science and Engineering

May 20XX

Minors in Manufacturing Engineering and Photography & Digital Imaging

GPA 3.42/4.0

WORK EXPERIENCE

Power Superconductor Applications Corp., New Castle, PA

Summer 20XX

Laboratory Specialist Grade IV

- Utilized engineering software such as LabView, MathCAD, and AutoCAD
- Constructed testing apparatus and tested Linear Induction Motors and Transverse Flux Machines
- Led research initiative on the use of Cryogenic Aluminum hyperconductor in company products
- Contributed to published paper: Kuznet, Levy, Wilson. "Development of High-Field Transverse Flux Induction Drive for Ordnance Handling on Navy Ships and Industrial Conveyors" *4th Int. Sym. Linear Drives for Industry Apps.*
- Participated in writing government proposals and travel to Wright Patterson Air Force Base, NIST, NRL, and ONR to meet with partners and clients

Carnegie Mellon University, Undergraduate Research

Research Assistant, The effect of surface texture on formability in Aluminum sheets

Spring 20XX

- Designed templates for a photolithography process to texture Aluminum sheets
- Performing ongoing mechanical testing and analysis

Research Assistant, Grain Boundary Movement in Thin Films of Aluminum

Spring 20XX

- Produced images from TEM negatives in a black and white darkroom
- Traced grain boundaries by hand to track movement and wrote original paper on hand tracing techniques

National High Magnetic Field Laboratory, Tallahassee, FL

Summer 20XX

Research Intern, Topic: Superconducting Material Magnesium Diboride

- Improved production for pure MgB_2 by refining heat treatments
- Operated SQUID magnetometer and ran X-Ray Diffraction tests
- Interpreted results, wrote an original paper, and presented research to scientists, staff, and peers

ACADEMIC PROJECT

Materials Science Capstone Course, Senior Group Project

Fall 20XX

Deformation of Amorphous Metallic Ribbon for use in Magnetic Core Applications

- Performed magnetic, compositional, and structural analysis on cores donated from Spang Magnetics
- Designed a billet and performed hot extrusion of a wound core at WPAFB to reduce the ribbon thickness
- Cast an amorphous rod and amorphous metallic ribbon for comparative analysis

SKILLS

Applications: Adobe Photoshop, Minitab, LabVIEW, MathCAD, Java, MS Office

Instruments: Scanning Electron Microscope (SEM), X-Ray Diffraction (XRD), SQUID Magnetometer, Differential Scanning Calorimetry (DSC), Differential Thermal Analysis (DTA), UV-Vis spectrophotometer, Vickers Hardness Testing, Charpy Testing, Polishing, Melt Spinning, Photography and Black and White Darkroom, Color Photography Darkroom, Soldering

LEADERSHIP AND HONORS

Resident Advisor, CMU Apartments

20XX- 20XX

National Society of Collegiate Scholars

20XX-20XX

Judith Resnik Challenger Scholarship

20XX-20XX

Student Action Committee, MSE

20XX-20XX