Sample Science, Computer Science and Engineering Resumes

This document offers several examples of resumes for science, engineering, or computer science opportunities. Note that the information provided, the categories used, and the language style in each example varies based upon field/discipline and specific job or internship opportunities.

When applying to technical Research Assistant positions or similar roles, an extended resume or *Curriculum Vitae* (CV) may be appropriate, provided you have sufficient relevant experience to fill more than 1 page. A CV should prioritize information about your publications, presentations, research experience, and technical skills. Review the CVs of researchers or faculty you admire or seek to work with (generally available online), as these often provide good examples to follow.

We encourage applicants to partner every resume or CV with a brief cover letter to provide a prospective employer with important context for your experiences (particularly your research work) and to communicate your interest and familiarity with the specific opportunity.

Connect with the Lazarus Center for Career Development for assistance with your resumes, cover letters, or any aspect of your search. To schedule an appointment with a Career Adviser, contact us at 413-585-2582 or visit our office.

HUONG (LUCY) YANG

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EDUCATION

Smith College, Northampton, MA
Bachelor of Science, Engineering Science, emphasis in Mechanics, May 2015 **GPA: 3.60**

Relevant Coursework: Engineering Design Clinic, Simulation and Modeling, Signals and Systems, Technological Risk Assessment, Statistics for Engineers, Mechanical Vibrations, Failure Analysis, Introduction to Hydrosystems Engineering

SKILLS

Technical: MATLAB, Minitab, Neural Networks, ARIMA modeling, familiar with C programming and AutoCAD
Languages: Fluent Spanish; Conversational Portuguese

EXPERIENCE

Engineering Design Clinic, Smith College Picker Engineering Program (Sept 2014 - May 2015)
Project Sponsor: **Kollmorgen Electro-Optical**, Northampton, MA

- Researched current Lean Design practices in engineering industries
- Worked with 3 Design Clinic team members to analyze design processes, identify inefficiencies and recommended improvements based on Lean Design principles
- Co-managed $5,000 project budget, ensured all project deliverables were completed on-time
- Collaborated extensively with Kollmorgen employees and management
- Developed and presented project deliverables and final recommendations to project sponsor staff

Smith College Picker Engineering Program – Research Intern (June 2013 - May 2014)

- Developed workshop for middle and high school teachers to teach about engineering design and ways to apply in engineering principles in classrooms
- Developed engineering activities for inclusion in novel to introduce engineering concepts to students grades 7-12
- Co-authored ASEE conference paper and poster

Engineering Laboratory of Dr. Jack Jones, Smith College – Teaching Assistant (Sept 2012 - May 2013)

- Prepared materials for professor and students for use in lab sessions
- Assisted professor in answering questions and resolving issues during the laboratory

Curriculum Planning Committee, Smith College – Student Member (Sept 2012 - May 2013)

- Organized logistics for and participated in meetings with faculty
- Served as liaison between committee and student body

ACTIVITIES AND LEADERSHIP

Society of Women Engineers (SWE) – Smith College Student Chapter (2013 - present)
Co-President (2014 - 2015); Vice President & Technology Director (2013 - 2014)

- Served as liaison between Smith College faculty and administrators and SWE chapter members
- Applied for grant and Student Government Association funding
- Planned engineering outreach events

Engineering World Health – Smith College Student Chapter (2013 - 2014)
Vice-President

- Aided with chartering of Smith College chapter

Abigail Berns

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Education

Smith College, Northampton MA
Bachelor of Arts in Biological Sciences May 2014 GPA: 3.8/4.0
Honors: Awarded STRIDE research scholarship with Dr. Steven Jackson

King's College London, School of Biomedical and Health Sciences, 1/2013-6/2013
Junior Semester Abroad

Research / Laboratory Experience

Research Fellow, Laboratory of Parasitic Diseases
National Institute of Allergy and Infectious Disease, NIH, Bethesda, MD 8/2014-present

- Recipient of Intramural Research Training Award
- Manage care and treatment of 40 rats, including injection and assistance during MRI
- Quantitative analysis of experimental data
- Develop rat infection model for Taenia crassiceps
- Perform steriotaxic neurosurgery on rats to implant Taenia crassiceps metacestodes
- Design and present academic and experimental results

Research Assistant, Summer Research Fellows Program
Biology Department, Smith College 5/2012-12/2012

- Developed test to quantify biofilm formation of UTI-causing E. coli
- Trained and supervised first year research student

Community Health Experience

Intern, Communicable Disease Control Division, Boston Public Health Commission 6/2014-8/2014

- Adjusted state response survey to meet cultural needs of specific immigrant community during epidemiological investigation of an outbreak of foodborne illness
- Interacted with wide range of multi-ethnic, low-income patients while performing intake at free tuberculosis clinic
- Researched and created fact sheets for general public on pandemic influenza in infants and children
- Developed focus group oral questionnaire and written survey on community health practices surrounding pandemic flu

Intern, Clinical Serology Lab, Strong Memorial Hospital, Rochester, NY 6/2013-8/2013

- Handled HIV-positive sera, confirming accuracy of rapid HIV kits
- Tracked confidential patient records for a New York State HIV study

Publication

White, C. A. L. Berns, and S. Smith 2013. Low temperature (15 °C) increases expression of biofilm-, cold-shock- and RpoS-dependent genes in Escherichia coli. Microbiology; 150: 130-142.

Leadership Experience

Co-Chair/Religious Co-Chair, Smith College Hillel 9/2012-5/2014

- Conducted weekly meetings, delegated board member responsibilities, coordinated communications, organized guest speakers and holiday events for 200 people

ALYSSA JACKSON

121 Southridge Road, Springfield, MA 01118
(413) 244-1321 al_jackson@gmail.com

EDUCATION

Smith College, Northampton, MA Bachelor of Arts expected May 2017
Anticipated Major: Anthropology, Minor: Environmental Science and Policy

Springfield High School of Science and Technology, Springfield, MA Graduated June 2013

SKILLS

GPS: Trimble mapping grade receivers (GEO XM), Trimble Pathfinder Office
COMPUTER: KaleidaGraph, Stata, Microsoft Office
LANGUAGE: Conversational Spanish

RELEVANT EXPERIENCE

Smith College, Northampton, MA
Assistant, Spatial Analysis Lab 2013-present

- Produce professional-quality digital maps of Smith College campus infrastructure.
- Help lab staff train students in digital map production, spatial analysis, spatial database generation, and GPS field data collection.
- Develop and produce print training manuals and video guides for GIS and GPS users.

Pioneer Valley Project, Springfield, MA
Outreach Worker, Healthy Nail Salon Project 2011-present

- Invited to continue work on EPA-funded project after exceeding high school internship expectations.
- Develop and improve outreach and training materials on hazardous nail care products.

Baystate Medical Center, Springfield, MA
Research Assistant Jan.-Aug. 2013

- Compiled, geocoded, and analyzed databases for child obesity research.
- Updated and edited Excel database and socio-demographic data layers.

Center for Sustainable Development Studies, Atenas, Costa Rica
Study Abroad Student June-July 2012

- Digitized hand-drawn and produced digital land-use/land-cover maps for Costa Rican national and municipal governments with use of GPS and field assessment.
- Assessed biodiversity conservation and land management policies and realities in Costa Rica.

LEADERSHIP EXPERIENCE

Pioneer Valley Youth Society, Springfield, MA
President, June 2012-May 2013 Youth Leader, Sept. 2009-May 2011

- Oversaw activities and communications of 100-members chapter of international organization.
- Mentored inner-city youth aged 7-18.

CHRISTINE PHAN

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612.685.3964 | c1phan@smith.edu

EDUCATION

Smith College, Northampton, MA -- Bachelor of Arts expected May 2016
Major: Physics, Minor: Philosophy -- Cumulative GPA: 3.48

University of St. Andrews, St. Andrews, Scotland -- Junior Year Abroad program, 2014 – 2015

PUBLICATIONS AND PRESENTATIONS

Baumgartl, J. et al. including Christine Phan. "Particle Clearing and Trapping using Optically-mediated Airy Beams." *Optical Express*. (To be published in 2015).

"Propagation of Orbital Angular Momentum States of Light in Turbulent Media."
Symposium on Undergraduate Research DLS Meeting LS-XXIV, Rochester NY, October 2013

RESEARCH AND TEACHING EXPERIENCE

Teaching Assistant, Smith College Astronomy Department, Northampton, MA, January 2015 – present
Held evening lab hours weekly to assist in teaching laboratory material to students in introductory astronomy courses. Assisted in solar and night-time telescope observations for Smith faculty, students, and guests.

Research Intern, University of St Andrews, St. Andrews, Scotland, August 2014 – February 2015
Developed optimized process for particle clearing and trapping using optically-mediated Airy beams. Wrote LabVIEW program with user interface that controlled experimental parameters. Conducted experiments using program, and employed MATLAB for data analysis. Results showed that Airy beams successfully manipulated micro-particles. Experimental procedure will be applied towards research involving optical sorting of animal cells and other biological material.

Teaching Assistant, Smith College Physics Department, Northampton, MA, January 2013 – May 2014
Tutored students in a 3rd-year course, Thermal Physics, on a weekly basis. Helped students prepare for exams and homework assignments by going over concepts in thermal physics, statistical mechanics, and introductory physics. Graded problem sets for General Physics I, General Physics II, and Modern Physics I.

Research Intern, University of Rochester REU Program, Rochester, NY, June 2013 – August 2014
Researched adaptive optics and orbital angular momentum (OAM) states of light for a summer REU project. Set-up and performed several experiments to characterize the propagation of OAM states through turbulent media. Wrote LabVIEW and MATLAB programs for data collection and analysis. Data suggested that OAM states are good candidates for quantum cryptography.

GRANTS

Awarded NSF research grant, 2014

TECHNICAL SKILLS

Mathematica, LabVIEW, LaTeX, MS Office, JavaScript, MATLAB, , Adobe Illustrator, Adobe Photoshop

CO-CURRICULAR EXPERIENCE

Member, Smith College Ultimate Frisbee, 2013 – present

Samantha Fellows

Box 0000, 1 Chapin Way, Northampton, MA 01063; (303)-230-5551, slfellows@smith.edu

Education

Smith College, Northampton, MA BA degree May 2015
Major: Sociology, Minor: Economics

Related Courses: Biology, Organic Chemistry, Inorganic Chemistry, Calculus, Physics, Medical Sociology, Qualitative Research Methods

Edwin O. Smith High School, Storrs, CT Graduated June 2011

Laboratory Skills

Chemistry techniques include: visible spectroscopy (Hewlett Packard and Ocean Optics Diode Array Spectrometers); IR and NMR spectroscopy; GC-MS; TLC; titration; calorimetry; synthesis: separation and purification (degradation, recrystalization, extraction, filtration, distillation).

Biology: Experience with dissection (fetal pig, cat); chromatography; DNA isolation and fingerprinting by PCR; DNA and protein synthesis; enzyme kinetics ; EKG (ECG); light microscope experience.

Additional Experience

Treasurer and Secretary, Cutter Dormitory Council, Smith College, 2013-2015
Planned and administered $1400 budget for 80-student residence. Attended weekly Council meetings. Co-facilitated monthly house meetings. Kept records of House activities, dues and budget.

Advisory Board Liaison, Counseling Services, Smith College, 2013
Address and report on student mental health concerns.

Co-Chair, Mental Health Support Group, Smith College, 2014
Facilitate support group, providing safe environment for students to discuss problems.

Administrative Assistant, Dr. Schmitt, Pediatrician, Storrs, CT, 2011-2012
Perform general office work: billing, filing, data entry. Some experience shadowing doctor.

Tennis Instructor/Camp Counselor, 2011-2012

Child Care Provider, 2008-2011

Activities and Interests

Community Service: Service Organizations of Smith (SOS), 2012; Healthy Heads (mental health advocacy), 2012; Nursing Home Volunteer, 2009-2010; Special Olympics Volunteer, 2008-2010

Athletics: Smith College JV Tennis; Varsity Tennis Grades 9-12, Captain 12, Coaches Award 10; All-Conference Academic Team (tennis)

Additional Awards: Daughters of the American Revolution Good Citizen 2011; Superintendent's Award 2011 (given to two students in graduating class); Club President's Award (Keyettes, Community Service Group) 2010

Languages: Fluent in French
Computer Proficiency: Microsoft Word, basic Excel and Data Studio proficiency, ISIS Draw

Elizabeth Mitchell

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www.lmmitchelldesign.net www.linkedin.com/in/emmitchell

Education

Smith College, Northampton, MA Bachelor of Arts received May 2014 Major: Computer Science
Dean's List: 2011-2014

King's College, University of London, UK Spring Semester Study Abroad 2013
Completed coursework in Computer Science and Foreign Language

Technical Summary

Python, Java, Assembly Language, HTML, OpenGL, Pure Data, POVRay, Csound, PHP, Photoshop, Dreamweaver, Illustrator, Audacity, 3D StudioMax, Reaper, AutoCad, Blender, Windows, Mac, Linux experience

Experience

Webmaster, Web Designer, Writer MusicSquared (Jan 2014 - present) http://musicsquared.net

- Designed and produced original layouts for multi-part webzine created in partnership with a translator for publication of original articles and translations centering on the Japanese music scene and its surrounding subcultures
- Handled email and other internet correspondence with readers and industry representatives for promotion, press arrangements, and site-related inquiries
- Perform article research, conduct fan and artist interviews, and review performances and artist recordings

Tech Support and Lab Assistant Smith College Educational Technology Services (Sept 2012 - May 2014)

- Aided lab patrons with multimedia production on Windows 8, XP and Mac OS X computers
- Provided on-site troubleshooting and classroom support for professors and faculty who gave Technology-assisted lectures and presentations
- Assisted supervisors with projects such as developing interactive French learning software and organizing computer based curriculum material for classes
- Responded to all phone calls and in-person questions presented at the help desk with appropriate answers or re-direction

Production Intern, Web Design Metamorphoses Journal of Literary Translation (June 2012 - Aug 2012)

- Designed and created new graphic interface for existing website based on requested themes
- Cleaned and edited HTML code developed by previous webmaster
- Updated information for latest journal publications
- Analyzed translations for quality and accuracy
- Copy-edited submissions chosen for publication

Monica Smith

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EDUCATION

Smith College, Northampton, MA
Bachelor of Arts in Computer Science, expected graduation: May 2016
Relevant Coursework:
Introductory Python, Circuit Theory, Mechanics, Strength of Materials, Thermodynamics, Calculus I, Calculus II, Programming with Data Structures, Computer Graphics, Linear Algebra, Advanced Programming Technique, Algorithms, Discrete Mathematics, Microprocessors and Assembly Language, Theoretical Foundations, Mobile and Locative Computing.

SKILLS

Technical: Python, Java, Django, Mathematica, HTML, and OpenGL
Languages: Conversational Spanish

EXPERIENCE

Smith College, Computer Science Department – Teaching Assistant (Sept – present)

- Teaching assistant for Introduction to Programming using python (CSC 111)
- Help students with question they may have regarding homework, lab, and programming concepts

Serious Technology, Weymouth, MA- Django Web Development Intern (June – present)

- Built a timesheet application to log hours of work, run reports on time spent on a specific project, and added QuickBooks exporting feature.
- Working on fixing bugs for customers and adding features upon request

Smith Undergraduate Research Fellowship (SURF) Research Student (Summer 2014)
Project: Computational Infrastructure For Predicting Auxetic Behavior in Crystalline Materials (funded by NSF)

- Currently working on developing a GUI using PHP and Jmol (Java Molecular visualizer) to integrate into the Kinari software.
- GUI will help predict if the any of the observed crystalline structures exhibit Auxetic behavior

Summer Science and Engineering Program - Robotics Teaching Assistant

- Office of Non-degree Programs, Smith College (Jul-Aug 2013)
- Robotics course focused on the basic structure of programming through the use of LEGO MINDSTORMS
- The course allowed students to understand the engineering design cycle
- Helped prepare course material
- Taught students how create their own web pages using HTML and JavaScript