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Aeolus Building Efficiency, Inc. | masschallenge.org/startups/2013/profile/aeolus-building-efficiency

- Shira Faigel (Chemical Engineering, Biomedical Engineering, 2016)
- Engineering Intern
- Full-time, 40 hours per week
- Paid; received MassCEC Internship Grant

What do you do as an intern at this organization?
I learned about commercial building HVAC systems that employ VAV boxes and economizers for energy efficiency. I then analyzed and trended building HVAC use for potential energy savings by reducing each individual VAV box’s minimum set point and then the overall supply air needed. Additionally, I investigated economizer control logic and organized a provisional patent for new controls. I helped to prepare and submit a Phase II SBIR grant application, which required me to forecast and model a five-year financial outlook for the startup.

How did you find your internship?
I submitted my resume through the MassCEC internship program. This program allows startups with energy-related technology to employ interns they find through resumes submitted to MassCEC, while being reimbursed for the interns’ pay.

What do you enjoy most about your internship?
I enjoyed the challenge of having to learn something I didn’t know about before the internship. In a company of only three people, including me, I had a lot of responsibility.

What do you find challenging?
Being one of only three people required a lot of communication on what could be accomplished and who would take care of it. This became frustrating at times, as a lot of responsibilities fell on my lap and I had to navigate the waters with little guidance.

What advice would you offer to someone who wants to make the most of an internship like yours?
Try to find a slightly larger company than mine; it was difficult to get guidance or mentoring, which was what I really needed as I still do not know exactly what I want to pursue next year. Take advantage of the MassCEC’s structured events; they offer a few during the summer.

About the Organization
Aeolus Building Efficiency, Inc.
Brookline, MA

Aeolus Building Efficiency will reduce energy use in large office HVAC systems at a much lower cost than current technologies. Our full-service, software solution uses advanced technology (pat. pend.) for room-by-room measurement and optimization of airflow, reducing HVAC energy up to 20% without expensive equipment installations or labor-intensive rebalancing. Our scalable business model will create significant financial value for customers and prevent millions of tons of CO2 emissions.
Albany Engineered Composites | www.albint.com

- Anonymous (Chemical Engineering, Biological Engineering, 2016)
- Value Stream Intern
- Full-time, 40 hours per week
- Paid

What do you do as an intern at this organization?
I gather time study and process data to help make engineering processes more efficient. Often this involves collection of data from machines and setting up cameras to video process in action.

How did you find your internship?
I found this job because it’s local to my parents' house, and I was searching on their company website for positions for the summer. I think it was also posted on an internet job board.

What do you enjoy most about your internship?
I was treated like an equal and not like the stereotypical 'generic intern'. They adjusted the role to my strengths and even relied on my abilities, trusting me to come up with and execute my own initiatives. Some of my work has been incorporated into the company's official international database.

What do you find challenging?
Often the senior engineering staff would request that I help them on data gathering for one project or another, and these projects would be occurring simultaneously and I’d have to manage/juggle multiple time-sensitive jobs at once.

What advice would you offer to someone who wants to make the most of an internship like yours?
Be organized; be communicative. These two things will ensure that you both understand what your work priorities should be and that you’ll be more efficient once you get started.

About the Organization
Albany Engineered Composites
Rochester, NH

Albany Engineered Composites designs, develops, and manufactures advanced composite components to help our customers push the frontiers of innovation. Our core strength is our ability to produce highly tailored, complex composite components. With our unique blend of products – including 3D woven structures, traditional and non-traditional 2D composite structures, and discrete through thickness reinforcement technologies, to name a few – AEC is able to produce composite components and products which meet performance and cost specifications often beyond the reach of metallic or conventional laminated composites.
Woody Butler (Computer Science, ELS, 2016)
Software Engineer
Full-time, 40 hours per week
Paid

What do you do as an intern at this organization?
I was part of the release engineering team. I presented new technologies to the office in Lunch and learns (Git, Jira) and overhauled the planning software we use to keep track of our work (Jira).

How did you find your internship?
Referral from professor

What do you enjoy most about your internship?
Being able to make a real contribution to a live software production environment. The workflow improvements I made actually made the department more organized.

What do you find challenging?
It’s hard to find work on the release engineering team. It's similar to IT or DevOps in that it has a high barrier of entry to contribute technically.

What advice would you offer to someone who wants to make the most of an internship like yours?
Ensure you are on a team/department you are interested in or are capable in. More suitable ones might be QA or Development.

About the Organization
Brainshark
Waltham, MA

Brainshark is a Marketing SaaS company located in Waltham, MA that specializes in video presentation, creation, and storing. Brainshark allows one to narrate PowerPoint slide presentations and turn them into digitalized presentations, and it provides a robust content-management-system that can allow entire enterprises to share presentations easily. These presentations help both the new-hire and sales processes by giving impactful presentations on the digital front.
Brooks Automation | www.brooks.com

- Herluf Lund (Mechanical Engineering, 2016)
- Controls Engineering
- Full-time, 40 hours per week
- Paid

**What do you do as an intern at this organization?**
I tune robots to prepare them for being sent out to customers, which involves a solid amount of MatLab, bode plot interpretation, and more.

**How did you find your internship?**
Through ZipRecruiter

**What do you enjoy most about your internship?**
I enjoy the fairly flexible hours combined with the clear, goal-oriented tasks

**What do you find challenging?**
It can be challenging to complete a large task with occasional or limited supervision.

**What advice would you offer to someone who wants to make the most of an internship like yours?**
I would take every task they give you as an opportunity to learn whether or not it is something you would like to do again later in life.

**About the Organization**
Brooks Automation
Chelmsford, MA

Brooks is a leading worldwide provider of automation and cryogenic solutions for multiple markets, including semiconductor manufacturing and life sciences. Brooks’ technologies, engineering competencies, and global service capabilities provide customers speed to market and ensure high uptime and rapid response, which equate to superior value in their mission-critical controlled environments.
Corvia Medical | www.corviamedical.com

- Russell Weeks (Mechanical Engineering, Human Factors minor, 2017)
- Manufacturing Engineering Intern
- Full-time, 40 hours per week
- Paid

**What do you do as an intern at this organization?**
I design and manufacture test fixtures; complete testing on different aspects of a device for FDA approval; manufacture product in clean room environment; and perform continuous improvement of manufacturing processes for existing products.

**How did you find your internship?**
My resume was pulled from the Career Center resume book.

**What do you enjoy most about your internship?**
The people are very motivated and extremely knowledgeable. My favorite part is being able to complete projects from every aspect of the company.

**What do you find challenging?**
Understanding the science behind how the device works.

**What advice would you offer to someone who wants to make the most of an internship like yours?**
Sharpen your solid-works skills and be prepared to tackle projects that you might not have the answer to right away.

**About the Organization**
Corvia Medical
Tewksbury, MA

Corvia Medical, Inc., previously DC Devices, Inc., is dedicated to revolutionizing the treatment of heart failure with first-in-class structural heart devices. The company has developed the world’s first transcatheter device designed to treat diastolic heart failure (DHF), also known as heart failure with preserved ejection fraction (HFpEF). The innovative InterAtrial Shunt Device (IASD®) is designed to reduce elevated left atrial pressure (LAp), which is the main cause of DHF/HFpEF symptoms.
Yuki Ito (Biomedical Engineering, Engineering Management, 2016)
Biomedical Engineering Intern
Full-time, 40 hours per week
Paid

What do you do as an intern at this organization?
I support the safety and quality engineering team with regulatory (FDA) efforts and support the biomedical engineering team by applying usability engineering design to DocBox Products. I also assist in the development of technical and documentation standards.

How did you find your internship?
The Massachusetts Life Science Internship Challenge. I'd recommend this to anybody who wants to work in the Life Sciences! You can submit a resume and a cover letter and companies contact you rather than applying to a ton of companies. I was contacted by 4 startups through the challenge.

What do you enjoy most about your internship?
I really enjoy the startup environment. Working at a small company has allowed me to work closely with a lot of different people.

What do you find challenging?
Trying to balance multiple different projects and figuring out when to do what.

What advice would you offer to someone who wants to make the most of an internship like yours?
Try to figure out a routine for yourself and figure out how to be the most productive. Figuring out how I work best has been a large part of my internship. Get to know as many people as possible, and ask for help when you need it.

About the Organization
DocBox, Inc.
Newton, MA

DocBox is developing an innovative clinical process management solution for hospitals that promises to help clinicians eliminate medical mistakes, improve clinical work flow and processes, and free up much of the time spent on administrative duties so that they, and particularly nurses, can focus on providing care.
Meredith B. Reynolds (Mechanical Engineering, Engineering Management, 2017)
Supplier Quality Engineering Intern
Full-time, 40 hours per week
Paid

What do you do as an intern at this organization?
I spent about 1/3 of my time in the office working on a large process improvement project to update SolidWorks drawings for The Twister III product line (Microplate Handler Robot). I also worked on several smaller projects to update quality documents and procedures. The other 2/3 of the time I completed daily tasks in incoming inspection such as inspecting parts from vendors, writing notifications for nonconforming parts, and communicating with manufacturing/engineering/purchasing to resolve quality issues.

How did you find your internship?
I had heard of the company because my father worked at a company called Zymark, and in 2003, Zymark was acquired by Caliper Life Sciences. Caliper Life Sciences was acquired by PerkinElmer in 2011. I checked the company website frequently for internships and applied as soon as internships were posted in the spring. A few days later HR called and I visited the same week for an onsite interview.

What do you enjoy most about your internship?
I enjoyed working with people in many areas of the company such as purchasing, engineering, manufacturing, and shipping. Throughout the summer, I met about 75 people including two Tufts alumni and another Tufts student! I was never bored because there was always more work to do, and I enjoyed having a lot of responsibility. My manager was approachable and once made me laugh so hard that I cried. There were two other interns who I worked with in the quality group (out of 20 interns total). Lunchtime activities were also a plus: beach volleyball, running group, employee BBQs, gardening, and Yoga/CrossFit classes.

What do you find challenging?
The company is extremely busy so I had to be proactive to accomplish tasks. I also found it challenging to leave something unfinished when a more urgent project/task arose.

What advice would you offer to someone who wants to make the most of an internship like yours?
The summer goes by fast, so talk with your manager at the beginning of the internship about what they would like you to accomplish and what you want to accomplish. Become invested in what you are doing; people around you can tell if you care about it. Ask questions. Be a team member. Take every opportunity possible to learn. Exceed expectations. Represent Tufts! There’s no set application deadline, but check the company website frequently during the spring semester (March/April) for intern openings.

About the Organization
PerkinElmer (Hopkinton, MA) is a global leader focused on improving the health and safety of people and the environment. Our dedicated team of 7,700 employees worldwide (about 300 employees at the Hopkinton site) are passionate about providing customers with an unmatched experience as they help solve critical issues in human and environmental health. Our innovative detection, imaging, informatics and service capabilities, combined with deep market knowledge and expertise, help customers gain greater insights into their science to better protect our environment, our food supply and the health of our families.
Port of Oakland | www.portofoakland.com

- Molly Greer (Geology, Environmental Studies, 2016)
- Engineering/Geomatics Summer Intern
- Part-time, 25 hours per week
- Paid

What do you do as an intern at this organization?
As an intern I helped with ongoing land surveying projects around the Port of Oakland. The main project that we worked on was laying out monument points on port property to discern where property lines exist because there is not a good record.

How did you find your internship?
Port of Oakland website

What do you enjoy most about your internship?
I enjoyed that I was able to spend the entirety of most days outside working with the equipment. Additionally, the internship program provided entrenchment experiences with each of the three parts of the Port of Oakland.

What do you find challenging?
As a non-engineer, learning a completely new field was challenging. I had to learn to set up equipment that I had not used before, and at times I did not entirely understand what we were working on.

What advice would you offer to someone who wants to make the most of an internship like yours?
I would advise people to apply for positions even if they don't meet all of the requirements. I applied for this position because it sounded interesting and because I knew that it would be a valuable experience. I am not an engineer with academic experience, but I still got the position and have learned a lot from it.

About the Organization
Port of Oakland
Oakland, CA

The Port of Oakland exemplifies a unique combination of public and private endeavors. It encompasses a world-class container port, a thriving airport, an array of retail and commercial buildings and acres of recreational and open space. The Port of Oakland, through its policies and its tenants' activities, supports approximately 50,000 jobs in the Northern California mega region and impacts about 827,000 jobs nationwide. Governed by a Board of Port Commissioners, nominated by the mayor of Oakland and appointed by a vote of the City Council, the Port of Oakland occupies an important place in the local and regional economy. The Port employs 465 dedicated and skilled professionals and generates thousands more jobs for local residents and businesses. The Port funds its own operations. It receives no tax money from the city, and instead supports businesses that provide millions in tax revenue to the City of Oakland and the State of California.
Jacob Isaacson (Chemical Engineering, Engineering Management, ELS, 2017)
- Analytical Development Intern
- Full-time, 40 hours per week
- Paid

What do you do as an intern at this organization?
The Analytical Development department at Shire does laboratory experiments to determine the structure and function information of drug candidates. I work in the lab trying to develop a charge profile for one of Shire's drug candidates in order to determine the different ways it is glycosylated, which can have an effect on its function.

How did you find your internship?
My girlfriend works in a lab at Northeastern and forwarded me an email about the job from one of the people who works in her lab. The person who works in her lab is a friend of the hiring manager, who sent out the email to some of his friends. The job was never posted online.

What do you enjoy most about your internship?
Spending time in the lab makes the day go by really quickly. I get to think analytically and apply the science that I have learned at Tufts to make conclusions based on my own experiments, and I design new experiments to learn more about the drug.

What do you find challenging?
The science is really challenging. The people at Shire have high standards when it comes to lab work, and everyone works extremely hard. Shire definitely has a fast-paced culture, and most of the full-time employees and contractors work 60+ hours per week.

What advice would you offer to someone who wants to make the most of an internship like yours?
Talk to as many people as you can. It is easy to get tunnel vision and focus too much on your project, your group, and your department. Look outside of what is immediately around you to see if there is something that interests you elsewhere in the company.

About the Organization
Shire Plc
Lexington, MA

At Shire, we enable people with life-altering conditions to lead better lives. We focus on developing and delivering innovative medicines for patients with rare diseases and other specialty conditions. This might be a therapy to treat an extremely rare and life-threatening disease such as Hunter syndrome or Fabry disease, or a medicine for a specialist condition such as ADHD or ulcerative colitis. To realize our aspiration to become a leading global biotech, our efforts are concentrated on four key strategic drivers: growth, innovation, efficiency, and people. Our priorities are to drive optimal performance of our existing products, increase patient access to these medicines, and to build our pipeline through research, development, and partnerships in order to deliver new medicines to patients.
Silicon Labs | www.silabs.com

- Patricia O'Connor (Electrical Engineering, 2016)
- Firmware Engineering Intern
- Full-time, 40 hours per week
- Paid

What do you do as an intern at this organization?
As an intern at Silicon Labs, I worked on developing the test framework for radio chips, and later, on development for their new radio software interface. Each day consisted of working on code and meeting with engineers and mentors at the company.

How did you find your internship?
Engineering Boutique Career Fair at Harvard last fall

What do you enjoy most about your internship?
The office was very welcoming. Everyone I worked with wanted to make sure I had a good experience and got to work on real projects that would get used by both employees and customers.

What do you find challenging?
The internship was primarily about software support for chips, and as an EE, I don't do as much coding as a CS major. I did a lot more coding than I expected (all of the time), but I caught on fairly quickly and it was still enjoyable.

What advice would you offer to someone who wants to make the most of an internship like yours?
Reach out and talk to people. Ask them how they got to where they are. Ask them for advice about graduate school. Ask them why your project isn't working when it was working five minutes ago. They are probably more than happy to help you and talk to you.

About the Organization
Silicon Labs
Boston, MA

Silicon Labs is the leader in energy-friendly solutions for a smarter, more connected world. For nearly 20 years, we have created the silicon, software and tools that enable the world's leading engineers to create products that transform industries and improve lives. From MCUs, wireless SoCs and sensors for the IoT to advanced timing and power management chips for Internet infrastructure and industrial automation, Silicon Labs' solutions provide customers with significant advantages in performance, energy efficiency, connectivity and design simplicity. At Silicon Labs, we are relentless in our commitment to excellence. Through the continual development of breakthrough solutions, engineering excellence, design simplicity and global perspective, we provide our customers with the ability to develop the leading solutions for a connected world. Customer success is our success; we are passionate about enabling breakthrough innovation and accelerating our customers' time-to-market.
• Rose Murray (Mechanical Engineering, 2017)
• Engineering Design Intern
• Full-time, 40 hours per week
• Paid; they also provide housing for interns

**What do you do as an intern at this organization?**
It's a mechanical, electrical, and plumbing building systems firm, so most of what I did revolved around designing those systems. I worked a lot in CAD and Revit, designing mechanical piping and duct systems. The internship program is pretty well-organized, so all the interns go through weekly trainings about all aspects of the company, such as engineering, estimating, project management, marketing, etc.

**How did you find your internship?**
Friend referral

**What do you enjoy most about your internship?**
I learned a ton. I worked on cool projects like DC museums, data centers, and the new Atlanta Falcons Stadium. Overall it's a really social work environment, which makes the summer fun. There's a company-wide cornhole tournament, weekly cookouts, and rarely does a week go by without at least one scheduled happy hour.

**What do you find challenging?**
I came into the internship knowing nothing about mechanical construction, so there was definitely a learning curve. Also, the work itself was pretty challenging.

**What advice would you offer to someone who wants to make the most of an internship like yours?**
Make contact ASAP. The info about who to contact is on their website under careers. They have multiple divisions, so find out where you would want to be and then aggressively pursue whomever the contact person is for that office.

**About the Organization**
Southland Industries
Sterling, VA

Founded in 1949, Southland Industries provides innovative engineering, construction, service, and energy service solutions through a holistic approach to building performance. Advocating a design-build-maintain model, Southland believes in offering customers the option of optimizing each stage of the building lifecycle through an integrated, customized project or by selecting any of our services and capabilities to be implemented individually. For jobs large and small, our in-house experts remain connected, sharing knowledge and information to produce the innovative, practical solutions that have earned Southland its unmatched reputation as one of the top design-build firms in the nation.
Tufts Center for Engineering Education and Outreach | www.ceeo.tufts.edu

- Ronna ten Brink (Engineering Psychology, Computer Science, 2017)
- Research Assistant
- Full-time, 35 hours per week
- Paid

What do you do as an intern at this organization?
I work on my team's research projects; specifically, I created a website to disseminate research components and results. In addition, I designed mobile maker kits for use in urban elementary schools as part of the project and to exist beyond the project. I also helped with smaller tasks like revising an evaluation system and transcribing video.

How did you find your internship?
I found my internship in mid-April, pretty late in the game. I became friendly with a TA for a class that I enjoyed and she recommended me for the position; she is friends with the graduate student who hired me and with whom I now work.

What do you enjoy most about your internship?
I love the CEEO work environment! There are many undergrad interns here, so even though I'm the only undergrad on my project, I'm surrounded by people creating, learning and having fun. (And there are Legos everywhere!) I enjoy working with my supervisors; they're kind, intelligent, and helpful. Access to the Makerspace is a great perk. The engineering education research and work done here is fascinating and even groundbreaking, which is very exciting to be around.

What do you find challenging?
I am part of a team that consists of two professors and one PhD student. Both professors operate remotely, although one comes in roughly every other week, and the graduate student is not usually in every day. Not having collaborators around me on a regular basis is a challenge -- it's harder to get feedback and bounce decisions off of people (and motivate myself) if most communication is over email with delays.

What advice would you offer to someone who wants to make the most of an internship like yours?
Get on a project that will motivate and fulfill you. Since what you work on is determined by who hires you, talk to professors (your potential employers) ahead of time about what they would expect of you.

About the Organization
Tufts Center for Engineering Education and Outreach
Medford, MA

The members of the Center for Engineering Education and Outreach are dedicated toward improving engineering education in the classroom, from Kindergarten to college. We have a research program aimed at understanding how kids and adults learn engineering. This research then informs our development of various educational tools. We collaborate with a number of companies to bring these tools into the classroom, and our outreach arm works with teachers around the world to further refine tools and support the teacher-user community. The Center houses faculty, staff, and graduate students from engineering disciplines and the education department.