

SARAH MARY JACOB

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EDUCATION

Bachelor of Engineering- Mechanical Engineering 2014-2018 | *Stony Brook University, USA/ State University of New York, Korea*

Dean's List 2014, 2016, 2017, 2018. Graduation: December 2018

SKILLS

Technological Skills

- NX 10 Siemens PLM Software
- Fusion 360
- DraftSight
- LabVIEW
- G-Code
- MATLAB
- Python
- HTML5
- Excel, Word, PowerPoint

Language and Other Working Skills

- **English** – Native; **Hindi** – Fluent
- **Korean, French, Spanish** – Elementary
- Creative Thinking
- Decision Making
- Critical Thinking
- Problem Solving and Communication

JOB EXPERIENCE

Research Assistant – January 2019 -Present | *Ghent University Global Campus*

Developing automated systems (for previously manual tasks) for the Lab of Plant Growth Analysis, thus reducing time spent for measurement and analysis.

Resident Assistant – 2017 -2018 | *State University of New York, Korea*

Facilitated the social, academic, and personal adjustment of students to University life and organized events throughout the semester.

Mentor for middle and high school kids – 2015 | *Chadwick International, Incheon*

Led a workshop for middle and high school kids, teaching them how to use and code Arduinos, hence encouraging them to consider a future in STEM.

Student Affairs Intern – 2015 | *State University of New York, Korea*

Dealt with students' issues and acted as a liaison between students and staff

RESEARCH AND DESIGN EXPERIENCE

Research project –January 2019- March | *Growth Analysis System*

Working to design and implement a system that automatically gauges the length of coleoptiles growing in the dark and uploads the data to a computer to save researcher time and avoid plant destruction

Creating a website (based off a program) that measures the length of coleoptiles and seedlings automatically when an image is uploaded, thus making it accessible to all

Research project –2018 | *Smart Farms*

Worked to design and implement a smart farm system that uses solar panels to automatically harvest sunlight not needed by plants, thus doubling land output

Design project – 2018 | *Portable CNC Machine*

Worked in a group to create a portable and affordable CNC machine, to be used by hobbyists, and teachers to inculcate machining practices in students.

Project Coleader – 2015-2016 | *LEAD Lab. Incheon, Korea*

Managed and collaborated with a team of fellow students to create an accurate indoor navigation system. We created a pocketable device that could provide the user's indoor location based on their altitude and GPS.

Independent research project – 2015 | *Solar powered phone charger case*

Designed a solar powered phone charger case using NX10 and SketchUp.

AWARDS AND ACHIEVEMENTS

SUNY Korea Shared Prosperity Scholarship | *Full Tuition Scholarship 2014 – 2018*