

Pokkrit (Poon) Jeerapat

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Education

Northfield Mount Hermon School (GPA 3.69)

- Dean's List (9-11); High Honors (10-11); Honors (9-11); National Society of High School Scholars (11)
- Effort Commendable (9, 11); Moody's Effort Award (9); AP Scholar with Distinction (11)

Senior Capstone Project: Developing a carbon nano-tube-enhanced, paper-thin, biodegradable battery

Independently Completed: Autodesk (Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360), CornellX-ENGR2000X (A Hands-on Introduction to Engineering Simulations)

Extracurriculars

Wiribed, Founder & Designer

December 2020 – Present

- Designed and produced origami-inspired interlocking, easy-to-assemble, and sustainable \$45 hospital beds
- Distributed over 1000 Wiribeds with support from individual donors and companies
- Made the design open-source and created social enterprise to allow anyone to build, purchase and donate Wiribeds

Invasive Algae to Paper, Researcher and Product Developer with Kasetsart University Fisheries Department

March 2020 - Present

- Co-Author of "Proximate composition and potential use of green seaweeds Chaetomorpha and Rhizoclonium from aquaculture ponds in paper making", submitted to Journal of Applied Phycology
- Design algae paper sapling transport bag to replace more than 100,000 plastic bags used in Thailand annually
- Applying for approval so that products made from algae paper can be used to claim carbon credit to compensate for the carbon footprint of individuals or companies

SteetChildTalks, Founder

June 2022 - Present

- Develop platform that connects donors, support organization and hard-to-reach street children
- Designed an adjustable stand that helped in garland-making process
- Integrated the street children into the education system through supporting them with school registration and obtaining school supplies

Internships

Internship at Silpakorn University Department of Chemical Engineering (July 2022)

- Built a prototype of a paper-based battery, which is thinner and more flexible than standard batteries, for use in future electronic devices

Mechanical Engineering Internship at King Mongkut's Institute of Technology Ladkrabang (June 2022)

- Built an electric car and created a power-supply system; used computer-aided design (CAD) to create parts for the kits

Internship at Thailand's National Electronics and Computer Technology Center (July-August 2020)

- Tested out coding hardware (KidBright Board) and software (KidBright IDE); gave feedback on the center's new computer programming curriculum designed for children

School Clubs and Leadership Positions

- **Innovative Idea Pitching Club** (Founder and President, September 2021-Current)
- **NMH Global Ambassador** - Support international students and share international cultures (September 2022-Current)
- **Thailand Student Association**, Member (September 2019-Current), Leader (September 2022-Current)
- **Varsity Swimming Team** (Member, November 2019-March 2023); NEPSAC Qualifier, seventh place in Kanlayanamit Championship
- **Science Club** (Member, September 2019- November 2021); **Robotics Club** (Member, September 2020-November 2021)

International Awards

- 2nd Place Best Young Innovator Awards, International Invention Innovation Competition in Canada (ICAN)
- 1st Place Int'l Special Award from Turkish Inventors Assoc.
- Gold Medal, ICAN Competition 2022 - for Wiribed
- 6th Place International Special Award from National Association for Science and Research (NASR) 2022
- Finalist, Paradigm Challenge 2021, LA, USA
- Silver Medal, ICAN Competition 2022 - for Algae Paper Sapling Bag

National Awards

- 2nd Runner Up, Thailand Open National Innovation Agency (NIA) Awards 2022
- 2nd Runner Up KMUTNB Innovation Awards 2022
- 4th Prize Winner, Thailand Plastics Awards 2020
- Finalist, HackBKK by Thai Startup 2022

Product Design & Art Portfolio

Link to my portfolio slides: https://drive.google.com/file/d/1U0_5Jj3zbkriI6ca7P6Uhbhh1yi3PXdY/view?usp=sharing

Additional Skills

- Wakeboarding, Wakeskating, Kite surfing, Jet skiing, Mountain Biking, Certified Scuba Diver, Piano, Drum, Guitar and Traveling