

Ponsuganth 'Ponsu' Muthuraman, LEED® GA

Stanford, CA | (650) 509-2686 | ponsu@stanford.edu | ponsuganth.github.io

EDUCATION

Stanford University

Stanford, CA

MS in Sustainable Design and Construction: Sustainable Urban Systems | GPA: 4/4

Sep 2024 - Jun 2026

Awards: ASCE Student Scholarship 2025; DBIA-WPR Student Scholarship 2025; Stanford CEE Departmental Award 2024

Indian Institute of Technology Madras

Chennai, India

BTech in Civil Engineering | CGPA: 8.85/10 | Department Rank: 2/119

Nov 2020 - May 2024

Awards: MITACS Globalink Research Fellowship 2023 by Government of Canada; KM Scholarship 2023 for best all-round student in CE

RELEVANT COURSEWORK

Techniques and Methods for Net-Zero Building Design | Life Cycle Assessment for Complex Systems | Building Systems Design and Analysis | Engineering Future Electricity Systems | Understand Energy | Leading Org. Change for Sustainability | Equitable Infrastructure Solutions | Intro to Urban Systems Engineering

WORK EXPERIENCE

Sustainability Intern, WSP Built Ecology

Jun - Sep 2025

- Developed and refined energy models using eQuest and IESVE for high-rise buildings in New York City
- Supported LEED certification efforts and NYC code compliance (including LL85, LL97) documentation
- Contributed to large-scale infrastructure consulting projects like campus climate action planning and district energy system decarbonization

Research Assistant, Osman Lab, Stanford

Sep 2025 - Present

- Working on projecting financial benefits for Michigan utilities of implementing income-based water affordability programs, compared to the current revenue loss from unpaid bills and shutoff processes

Sustainable Stanford Fellowship, Office of Sustainability, Stanford

Sep 2025 - Present

- Developing and institutionalizing a new process to quantify embodied carbon in construction and inform a portfolio-wide Scope 3 climate action strategy for Stanford's new buildings

Course Assistant, CEE 242 Organization Design for Projects and Companies, Stanford

Mar - Jun 2025

- Responsible for assisting with teaching, grading and conducting office hours to help students

Summer Research Intern, Smart Cities and Communities Lab, University of Western Ontario

May - Aug 2023

- Worked on introducing an algorithm to detect damage in buildings using signal processing on sensor data

ACADEMIC PROJECTS

Life Cycle Assessment of Biopolymer-bound Soil Composite (BSC) Reef Balls, NASA

Sep - Dec 2024

- Conducted a comprehensive LCA using SimaPro to evaluate and compare the environmental and economic impacts for a large scale coral restoration project in Indonesia

Sepulveda Transit Corridor Project, Infrastructure Project Delivery Class

Jan - Mar 2025

- Led the design, build, finance, operate and maintain (DBFOM) bid for the LA Metro project as the Project Manager against 6 other bidding teams to deliver a socio-economic transformative public transit solution

Sustainability Dashboard for the IIT Madras Campus, India, Bachelor's Thesis

Jan - May 2024

- Designed a Power BI dashboard analyzing over 50 sustainability indicators, using data from 10+ departments
- Engaged 30+ stakeholders, including faculty, students, and administrators, via expert interviews and surveys, incorporating insights into the design

SOCIAL IMPACT

Philanthropy Chair, Leaders of the Built Environment, Stanford

Sep 2024 - Oct 2025

- Organizing charity and volunteering events; led food donation drives, beach clean ups, rebuilding low-income housing, tree plantation drives etc.