

SARTHAK CHAKRABORTY

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Master of Science in Architecture-Engineering- Construction-Management, Carnegie Mellon University, Pittsburgh, PA, US; August 2018
Bachelor of Architecture, Indian Institute of Engineering Science and Technology, West Bengal, India; June 2018; CGPA: 7.84 (Out of 10)
Certificate Training in Sustainable Project Development, CEPT University, Ahmedabad, India

EXPERIENCE/ INTERNSHIP

- Research Assistantship SOA (School of Architecture), CMU (Carnegie Mellon University)** *September 2018 – Ongoing*
- Data Analytics: Using Energy Data to Identify Critically Needed Building Portfolio Investments- Oversaw a portfolio of 50 US government buildings, developing strategies, calculating Return of Investment and preparing economic analysis of those strategies to reach 100% Net-zero efficiency, in order to significantly reduce utilities cost and derive profitability in order to include such economic adjustments
- Teaching Assistantship (Grader) at CEE (Civil and Environmental Engineering Department), CMU (Carnegie Mellon University) for Traffic Engineering Course** *September 2018- Ongoing*
- Intern, The Transformation Group, Kolkata, India** *May 2017 – October 2017*
- Community Centre Development of the New Kolkata Development Authority (NKDA)
- Intern, National Museum of Denmark, Conservation and Landscape Project of Colonial Heritage Structure** *May, 2017- November 2017*
- Conservation of the Danish Colonial Heritage Structure at Srirampur, India
 - **Role:** Cost Estimation, Risk Analysis, Project Management, Architectural Apprentice, Surveyor Intern

PROJECTS

- **Real Estate Development and Market Research of East Oakland, Pittsburgh** *September 2018- Ongoing*
- **Financial Statement Analysis of American Water Works Company** *September 2018-Ongoing*
- **Engineering Economic Analysis of a remodelling of equipment's of EBP Product and Services Co.** *September 2018-Ongoing*
- **Undergraduate Thesis on Autism and allied Mental Health Services Development** *November 2017 – June 2018*
Heath Care Development Analysis, User group Study, Architecture Design, Structural Design
- **Proposed Development of Shopping Complex at Tollygunj, Kolkata** *January – April 2017*
Commercial Real Estate Development Analysis, Market Study, Architecture Design, Structural Design
- **Master Planning of Indian Institute of Technology, Ropar, Punjab** *October – December 2016*
Institutional Real Estate Development Analysis, Architecture Design, Campus Planning

ACHIEVEMENTS / PUBLICATIONS/ ACTIVITIES

- Winner of National Level Architecture Competition (Yuva Ratna, 2015)**
- Developed a learning environment for different age groups to have hands on training and develop the necessary skills for proper community upgradation
- Publications:**
- SSAT Journal 2016-17 *'Decoding Enclosures: Orthogonal and Organic Structure'*
 - SSAT Journal 2015-16 (*Students Society of Architecture and Town Planning*) *'Communicating Through Architecture'*
- Other Activities:**
- Won NSS, IIT Bombay, 2016, **Social Impact**, October, 2016 Write up on the increasing physical attacks on women in India
 - **Financial Advisor and Content Developer at Indian Arch, 2016** (Annual Magazine at National Association of Students of Architecture) January 2016

TECHNICAL SKILLS

- Programming Language: C, Java, Python, R(basics)
- Adobe CC Suite (Photoshop, Illustrator)
- Microsoft Office Package: Word, Excel, Access, PowerPoint, Project
- Auto Cad Software
- Building Information Modelling (Revit)
- Geographic Information Systems (GIS)

RELEVANT COURSE WORK

- Project Management for Construction
- Risk Analytics
- Valuation of Real Properties
- Engineering Economics
- Decision Analysis for Managers
- Transportation Planning
- Real Estate Design
- **Financial Analysis for Manager**