HEMANTH HARIHARAN

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Program: MS in Sustainable Design and Construction - Energy Track (Stanford University)

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Program/Role		PROFESSIONAL AND SCHOLASTIC AC Institution/Company	GPA/Rating	Time of Completion
MS, School of Sustainability		Stanford University	4/4	Apr 24'
Project Coordinator		TATA Projects Limited	A+	Apr 22'
B. Tech, Civil Engineering		Indian Institute of Technology Madras	9.17/10	May 20'
EVIDENCE OF EXCELLENCE				
• Ranked 338 out of 1.2 million students in the Indian Joint Entrance Examinations, 2016.				
• Ranked 2 out of 101 students in the department of Civil Engineering at IIT Madras (undergraduate study).				
• Coordinated and managed 3 international power transmission projects in Africa.				
 Managed execution, quality and safety in one of India's largest power plant projects (4150 MW). PROJECTS AND EXPERIENCE 				
	Working with the ERCOT development team on utility-scale solar and battery-storage projects			
C	Working Wish the Bride's development team on utility seale setal and success seeding projects			
Summer intern	Interconnection Queue Project: Analysed trends in historical data from public ERCOT information. Financial Modelling: Compiling developer-facing models for all ERCOT pipeline projects and performing sensitivity analyses.			
at Cypress Creek Renewables				
Renewables				
Jun 23' – Sep 23'	Development Support: Project management and tracking in real estate development (land parcel			
·r	identification and GIS mapping, negotiation with land owners and signing lease agreements).			
24/7 Carbon-	Independent Study with Prof. Rajagopal on decarbonizing Stanford University's transportation (electric bus fleet – Marguerite)			
Free Charging				
Project				
	Low Carbon Fuel Standards (LCFS): Applied California's LCFS to calculate potential monetary			
Apr 23' – Jun 23'	benefits for Stanford Transportation through both charging and capacity pathways.			
	Data Analytics: Identified trends in charging patterns, electricity costs incurred and grid emission			
	Research	project in course - 100% clean renewable en	peray and storage for eve	prythina
Developing a				
roadmap for a				
100% WWS				
California	Resource allocation: Rooftop and utility-scale solar, onshore and offshore wind and existing			
4 00/ 1 00/	geothermal and hydroelectric power.			
Apr 23' – Jun 23'	Resource Sizing: Calculation of number of devices and final energy mix in a 100% WWS California.			
	Course nri	oject – Energy-efficient buildings		
Net-Zero Energy	Course pro	office Energy Cylicient bunuings		
Home Design in	Concept: Redesigned an existing summer home in Wolfeboro, NH to make it a NZE home using			
Wolfeboro, NH	passive solar design strategies, rooftop solar and a geothermal heat pump.			
	Design: Iterative process to optimize R-value of building envelope and minimize shading losses.			
Sep 22' – Dec 22'	Economics: Achieved projected NPV of savings of ~\$30k over 20 years.			
Pursuing the Energy track in Sustainable Design and Construction				
MS in	rui suiiig l	ле внегду и иск in sustainable Design and C	ionsu ucuon	
Sustainable				
Design and	and presented solutions for a <2°C future using the En-ROADS simulator.			
Construction	Course Projects: LCA analysis of carbon-nanotube building, Financial modelling of HVDC undersea			
	cable project, Design of an Urban Systems Sustainability Index.			
Sep 22' – Apr 24'	Interests: Renewable energy, Grid-scale battery storage, Energy Resource Modelling.			
EXTRA CURRICULAR ACTIVITIES				
Striving to uphold high standards in Tabla, a percussion drum in Indian Classical Music.				
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 Indian Classical Music Classical Arts Event - Saarang: Two-time winner in 2016 and 2017 at IITM. Concerts: Currently performing with senior artists in the Bay Area. 				

• **Teaching:** Conducting online and offline classes for beginner and intermediate students.