

Project Management
Station Access
Rolling Stock
Platform-Train Interface
Cost Estimation
Operations Data
Traction Power
Operations
Feasibility Study
Maintenance/Storage
Concept of Operations
Fleet Management

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Theodore (Ted) Rosenbaum
ted.rosenbaum@gmail.com
847.644.4554 (USA)
+61 455 167 274 (AUS)

<div>Theodore (Ted) Rosenbaum ted.rosenbaum@gmail.com 847.644.4554 (USA) +61 455 167 274 (AUS)</div>			Concept of Operations Fleet Management	Maintenance/Storage	Feasibility Study	Operations	Traction Power	Platform-Train Interface	Cost Estimation	Rolling Stock	Station Access	Project Management
			Planning	Simulation	Analysis	Design	PM					
Client	Project	Dates										
LTK Engineering Services - San Francisco, CA - Principal Consultant												2-2019
Caltrain	Caltrain Modernization Program	2013-2016	✓	✓	✓					✓		✓
Responsible for several work directive assignments, most of which either directly supported simulation activities or were syntheses of simulation outputs. These included the South Terminal Area Capacity Study and the 4th & King Station and Yard Reduction/Removal Feasibility Assessment, as well as the CalMod Concept of Operations (ConOps) document.												
Los Angeles Department of Transportation (LADOT)	LA Streetcar	2016								✓		
Estimated total operating and maintenance costs for multiple corridors and build-out dates using peer agency data from the National Transit Database.												
Santa Cruz County Regional Transportation Commission	Passenger Rail Feasibility Report	2014-2015		✓		✓	✓			✓		
Main author of operations section of the study looking at potential passenger rail service between Santa Cruz and Pajaro. Provided input on train technology choices and siting efficient passing track locations for several different potential stopping patterns. Responsible for simulating operations along the corridor in scenarios ranging from 10 to 22 miles long. Built up cost estimates for operations and maintenance of equipment based on simulations and industry trends for DMU rail lines.												
Bay Area Rapid Transit District (BART)	Silicon Valley-Berryessa Extension	2012-2013										✓
As the Design Interface Manager, coordinated interdisciplinary design elements for the 10-mile rail extension; systems raceway connections between the guideway and wayside facilities and structural clearance with local utilities. Responsible for locating blue-light stations in accordance with the design criteria.												
California Partners for Advanced Transportation Technology (Cal PATH) - Berkeley, CA - Graduate Student Researcher												2011-2012
Cal PATH	Freight on BART Project	2011-2012		✓		✓	✓			✓		
Assisted Dr. Lu with his ongoing research into using Bay Area Rapid Transit (BART) to transport freight packages between airport hubs at SFO & OAK and regional sorting centres. Modelled and simulated logistical issues with input from BART & FedEx officials, analysed policy issues, and performed cost-benefit analyses under various capital improvement												
US Department of the Navy - Washington, DC - Marine Engineer												2008-2011
Naval Sea Systems Command (NAVSEA)	Machinery Integration	2008-2011		✓	✓							✓
Responsible for developing and maintaining specifications and standards for machinery spaces on surface ships, as well as refining the Incentivized Energy Conservation (iEnCon) program. Projects included planning for the cruiser modernization program, development of a new operational tempo for use with hybrid-electric drive systems on destroyer-class ships, and a business case analysis of a new pulse detonation drive system for surface combatants.												

Education

University of California, Berkeley, May 2012
College of Engineering, Berkeley, CA
Master of Science **Focus:** Transportation Engineering

University of Pennsylvania, May 2008
School of Engineering and Applied Science, Philadelphia, PA
Bachelor of Science in Engineering
Major: Mechanical Engineering **Minor:** Philosophy

Presentations and Papers

- Presenter, "North American Light Rail & Streetcar Status Update". 14th National Light Rail & Streetcar Conference, April 2019.
- Author & Presenter, "Towards a Passenger-focused On-Time Performance Metric for Commuter Rail." APTA Rail Conference, June 2018.
- Co-Author & Presenter, "North American Light Rail & Streetcar Status Update". 13th National Light Rail & Streetcar Conference, November 2015.
- Poster Presenter, "Using Open Data and GIS to Rank Potential Commuter Rail Infill Station Sites." TRB Annual Meeting, January 2013.

Activities, Skills, and Licenses

- APTA Emerging Leadership Program, 2016-17
- TRB Light Rail Transit Committee Communications Coordinator; TRB Commuter Rail Committee member
- Fmr. Co-Chair of the TRB Public Transportation Young Member Subcommittee (2013-17)
- Registered EIT (Mechanical FE, April '09)
- Proficient in ArcGIS/QGIS, MS Office, and graphic design (Inkscape) applications; familiar with SolidWorks & MatLab