

# Daniel Linares MSCE, CMIT

Construction Management Professional. VDC and Technology in Construction.

## Objective

Develop professionally in the field of construction management and improve construction processes by implementing innovative technology. Considering Internship positions for Summer 2020.

## Education

**Ph.D. in Environmental Design and Planning, 2018 - 2021** - Virginia Tech, Blacksburg VA

**M.S. in Civil Engineering with focus in Construction Engineering and Management, 2018** - Virginia Tech, Blacksburg VA

**B.S. in Civil Engineering, 2012** - University of El Salvador, El Salvador

## Skills

### Technology in AEC

BIM	●●●●●	Excellent
Virtual Design & Construction (VDC)	●●●●●	Excellent
Revit	●●●●●	Excellent
Navisworks	●●●●●	Excellent
Synchro	●●●●●	Excellent
Infraworks	●●●○○	Good
Laser-Scanning	●●●●○	Very Good
Machine Learning	●●●○○	Good

### Project Controls

Delay Analysis	●●●●○	Very Good
Scheduling	●●●●●	Excellent
Primavera P6	●●●●○	Very Good

### Programming

Python	●●●●○	Very Good
MATLAB	●●●●○	Very Good
R	●●●○○	Good
HTML, CSS & JavaScript	●●●○○	Good

### Spoken Languages

Spanish	●●●●●	Native
English	●●●●●	Fluent

## Contact Information

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## Professional Experience

**Graduate Research and Teaching Assistant**, Virginia Tech, Virginia USA, Aug 2018 – present.

- Assessment of technology implementation to Infrastructure and Building Projects.
- BIM management, implementation and Execution. Interoperability solutions.
- Automation, Smart Construction, Smart buildings and Infrastructure in the AEC industry.
- Help undergraduate students to learn important AEC Industry related software.

**Graduate Research Assistant**, Virginia Tech, Virginia USA, Aug 2016 – Jul 2018.

- Decision Making. Analytical Hierarchy Process (AHP) to improve project delivery.
- Flash-tracking and Accelerated Bridge Construction (ABC).
- Data acquisition and analysis of data for analysis on construction projects for State DOTs

**Assistant Project Manager**, Inversiones Bolivar, El Salvador, Nov 2014 – Jul 2016.

- Preconstruction and project planning. RFQ and RFP.
- Project Management support and office-field coordination.

**Infrastructure Manager**, Ministry of National Defense, El Salvador, Jan 2014 – Oct 2014.

- Project planning, projects management, RFQ and RFP
- Bidding and awarding of projects as owner representative.

**Assistant Superintendent**, Prisma Corporation, El Salvador, Oct 2013 – Dec 2013.

- Estimation, scheduling and cost control, chance orders, RFI.
- Field operations and safety compliance.

**Design Engineer and Drafter**, MP Consulting and Construction, El Salvador, May 2013 – Sept 2013.

- Structural Analysis, drafter, bid proposals.

## Honors and Achievements

- I3CE 2019– Conference Paper and presentation - *Overview of supporting technologies for Cyber-Physical Systems Implementation in the AEC Industry*. June 2019. [Publication](#)
- TRB 2019 - Lectern Session 1376 Special Topics in Bridge and Structures Construction Research – Presenter - *Categorizing Accelerated Bridge Construction Projects for Improving Decision Making*. January 2019
- The Global Synchro Software University Challenge, 3<sup>rd</sup>. place, 2018. [Announcement](#)
- The Fulbright Scholarship, Department of State, USA, 2016 -2018
- Phi Kappa Phi Honor Society, USA
- Chi Epsilon Honor Society, USA
- Tau Beta Pi, Honor Society, USA

## Projects

- Construction Risk and Finance Graduate Team member. ASC Region 2 Student Competition.
- Categorizing Accelerated Bridge Construction Projects for Improving Decision-Making. Research.
- Flash-Tracking Best Practices and decision-making tools for GDOT. Research.
- Preliminary Land Development for Apartment Building. Avitat One. ~\$8M.
- Los Zorzalitos Residential Complex. 90 homes. ~\$15M.
- Maxidespensa Soyapango. Construction of a Supermarket. \$1.7M.

## Leadership

- Latin American Graduate Student Association, Board Member, 2018 - present
- CMAA student chapter @ VT, Secretary 2017 -2018
- The Civil and Environmental Engineering Graduate Student Council (CEE GSC), Board Member, 2017-2018

## Certifications

- Construction Manager in Training (CMIT) - CMAA