



CHRISTELLE ALRAIDY

Civil Engineer

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 Lebanese

 Single

Education

September 2017	Member of the Lebanese Order of Engineers and Architects
2020-Present	MBA in Financial Engineering Holy Spirit University of Kaslik USEK Kaslik, Lebanon
2012-2017	Bachelor in Civil Engineering Holy Spirit University of Kaslik USEK Kaslik, Lebanon
June 2012	Lebanese Baccalaureate in General Science College Central Des Moines Libanais Jounieh, Lebanon

Professional Experience

2017 - to date	Civil Engineering Manager Dream Builders Company Jounieh, Lebanon - Infrastructure Works(roads, highways...) - Excavation & Underground Services (electricity, Butec utility services, Phones, Ogero) - Water Systems - Negotiating with suppliers and mayors, in order to meet project requirement.
2016 - 2017	Civil Engineer SAKR Real Estate Admir, Adma, Lebanon - Site Inspection - DokaOneGo System and KumKang
2015 - 2016	Civil Engineer General Engineering Technology - GET Ashrafieh, Lebanon - Site Supervision
2014 - 2017	Assistant Project Manager AVSI (International NGO, UNICEF Project) Jounieh, Lebanon - Education Project
2013 - 2015	Orientation and Admission Assistant Holy Spirit University of Kaslik Kaslik, Lebanon - Assisting in implementation - Follow-up with new students
2014 - 2020	Private Tutor Creons et Craies Center Zouk Mosbeh, Lebanon - Teaching complementary and secondary classes

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 Languages

Arabic 
English 
French 

 Base Skills

- Communication ✓
- Decision-Making ✓
- Flexibility ✓
- Commitment ✓
- Innovation ✓
- Integrity ✓
- Leadership ✓
- Life-long Learning ✓
- Motivation ✓
- Negotiation ✓
- Teamwork ✓
- Time Management ✓

Internships

May 2017	VI Michelangelo Workshop Mediterranean network of young Ambassadors meets the Mediterranean Network of Engineers Schools (RMEI) Marrakech, Morocco
August 2016	Certificate of Completion CSI - ETABS Jdeideh, Lebanon
April 2017	Certificate of Completion AUTODESK – Robot Structural Analysis Essential Dbayeh, Lebanon
2016 - 2017	Vice President ASCE Student Chapter Jounieh, Lebanon

Computer Skills

Opertaing Systems	 Microsoft Windows
	 Macintosh
Engineering Soft.	 Autodesk Autocad
	 Autodesk Robot Structural Analysis
	 ETABS
Programming Soft.	 Java
	 Eclipse
	 Matlab
Office Soft.	 Microsoft Office (Word, Excel, Powerpoint...)
	 Microsoft Project

Hobbies & Interests



Skiing



Swimming



Jogging



References are available upon request

Project Type: Simulation Study

Subject Type: Tower

Name: Damac Tower

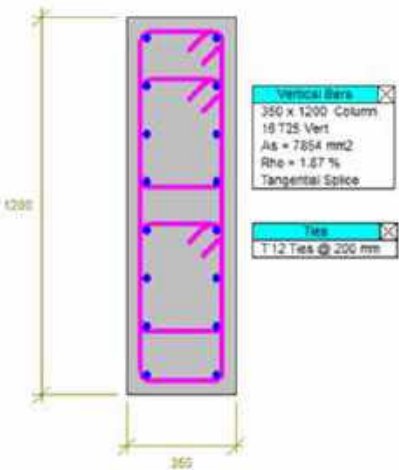
Location: Beirut Lebanon

Height: 126m.

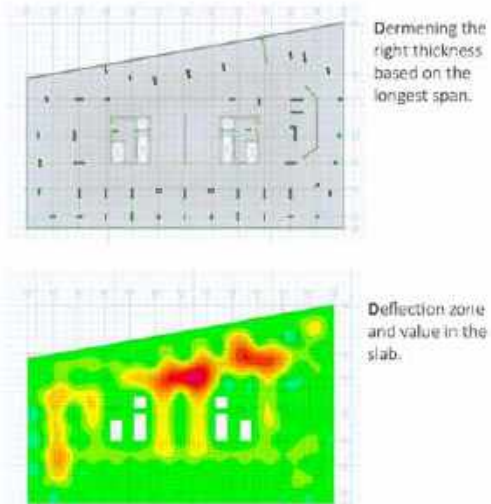
- Details:**
- 4 Basements
 - Ground Floor
 - 1st Floor
 - 28 Stories
 - Roof
 - Machine Room
 - Top of Roof



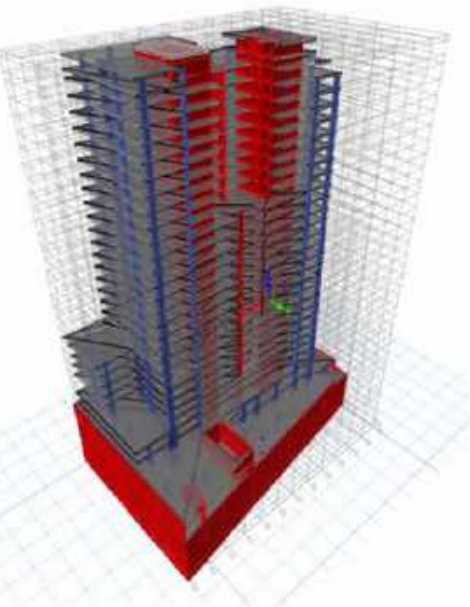
Column Reinforcement | S-Concrete



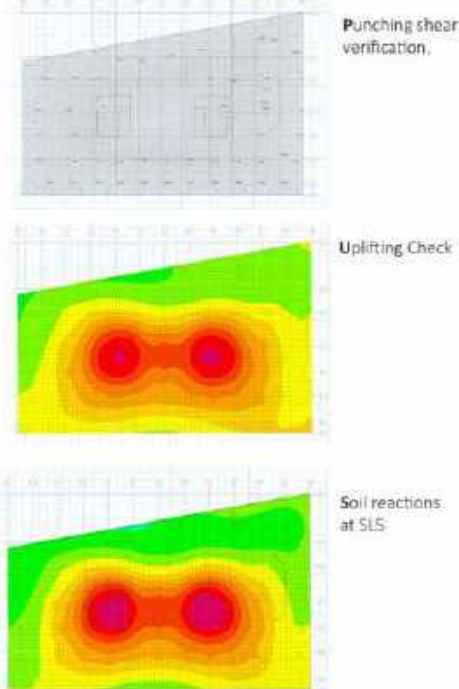
Basement Slab Plan Design | Safe



3D Modeling, Design, Analysis of the vertical elements | E-Tabs



Foundation



Project Type: Research
Subject Type: Ecological
Name: Waste Latex Paint
Location: Kaslik, Lebanon

Duration: 6 Months

Details: The impact of
Waste Latex Paint
on mortar properties.

- Test1:** Compressive Strength
- Test2:** Flexural Strength
- Test3:** Flowability
- Test4:** Adhesion

Compression Test



The compressive strength was determined using 50x50 mm cube molds.



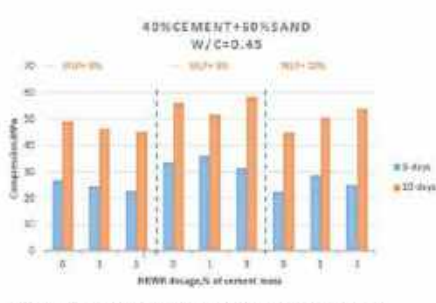
The molds were filled with concrete layers (5cm thick and compact each layer).



The test specimens were stored in moist air for 24 hours. A minimum of 3 specimens should be tested at each selected age group.



Testing in compression for hardened mortars. The values of the compression machine are normally obtained in kN, and then converted into MPa.



Effect of WLP on variations in strength for mortars prepared with 40 % cement.

Flexural Stenght Test



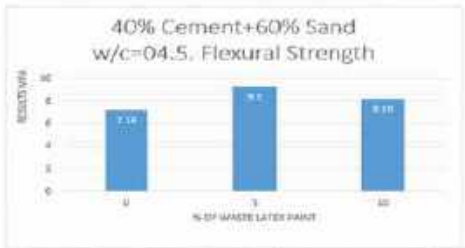
The mortatrs were filled in the 40x40x160 mm beams. Then the specimens were marked and removed from the molds.



Cubes, beams were submerged in a clear specific 22°C water then taken out for testing after 3,7 and 10 days.



Hardened mortars were tested using the Flexural strength machine one by one.



Variation in flexural strength results for mortars prepared with 40% C + 60% S

Flowability Test



Flowability test lifting the cone five drops as required by ASTM C230.



Mortars having different spread.



Effect of WLP on Variation in Flowability for mortars Prepared with 40% C.

Project Type: Research

Subject Type: Ecological

Name: Waste Latex Paint

Location: Kaslik, Lebanon

Duration: 6 Months

Details: The impact of
Waste Latex Paint
on mortar properties.

Test1: Compressive Strength

Test2: Flexural Strength

Test3: Flowability

Test4: Adhesion

Adhesion Test



Fill the concrete in layers; compact each layer and level the top surface



After 24 hours the samples are removed from the metal block



Commencement of Adhesion testing using the specified machine.



Destruction of the concrete-High adhesion bars.

Gallery



Project Type: Restoration

Subject Type: Villa

Name: Bsous Villa

Location: Aley, Lebanon

Extension : 2 Storey

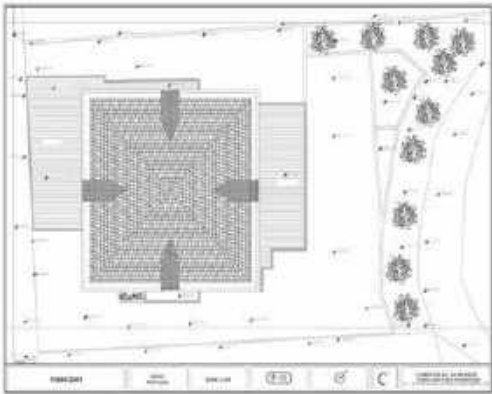
Area : 800 m²

Project Year : 2017-2018

- Details:
- Old Basement
 - Ground Floor
 - 1st Floor
 - 2nd Floor
 - Roof

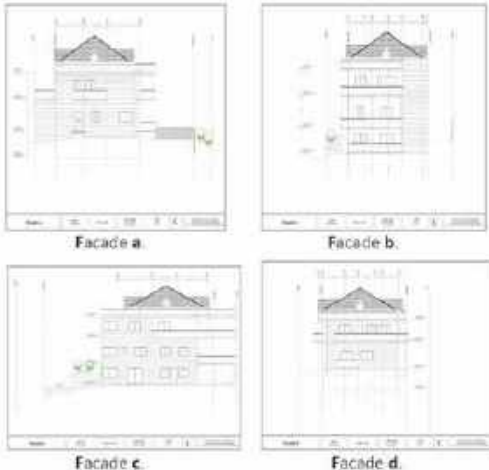


Ground Plan | Aerial View



The bsous villa Rooms is a two-story extension and restoration of an old basement. It serves as both a studio for the practice and a home for the partners' family

Facade Architecture | Design



Sections | Cut through the body of the villa



Section aa



Section bb

Floors



Basement



Ground Floor



First Floor

Project Type: Smart Valley
Subject Type: Residential Building
Name: Admir, Smart Living
Location: Adma Lebanon
Real Estate: SAKR

FormWork System: Doka OneGo

Nb of Buildings : 78
Nb of Units : 640 apartment
Internal Roads : 2.4 km

- Details of each building:**
- 1 Parking Basement
 - 4 Upper Floors
 - 2 apartments per Floor
 - 1 Swimming Pool
 - Roof
 - Machine Room



Performance of the plan ADMIR :

A gated community, consisting of 78 low rise buildings, distributed on 87,000 sqm land lot, the project will host a total of 640 apartment units of different sizes, therefore the total built Up area is 160,000 sqm.

Doka OneGo FormWork | System



Doka OneGo Go Fast | Build Smart

- Doka OneGo :**
- Formworks for walls and columns- not a standard.
 - Solid formwork framework for shaping.
 - Single operation to throw and stripe divider and floor panels.
 - Lightweight aluminum panels.
 - Work is repetitive.
 - Improve our productivity.
 - Currently each floor takes ten days.
 - The finish framework can be collected and re-positioned by hand.
 - The system is semi industrial because it is very standard.
 - Casting wall and floor in a single operation.



Activities completed | Office -Work

Working in the Technical Department :

- Calculated quantities.
- Detailed construction plans.
- Detailed reinforcement plans.
- Preparing apartment's Area, using excel sheet
- Qa Qc :measure the dimension of the apartments.

Report Writing :

- Reporting is an administrative/illustrative apparatus.
- Evaluating the rank of the project.
- Daily Report.
- Weekly Report.

Item	Unit	Quantity	Unit Price	Total Price
1	m ²	100	100	10000
2	m ²	200	200	40000
3	m ²	300	300	90000
4	m ²	400	400	160000
5	m ²	500	500	250000
6	m ²	600	600	360000
7	m ²	700	700	490000
8	m ²	800	800	640000
9	m ²	900	900	810000
10	m ²	1000	1000	1000000

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9	m ²	900	900	810000
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Activities completed | On-Site

On Site Work :

- Supervising.
- Checking the work based on the given check list.
- Inspection checklist
- Testing materials
- Receiving the concrete on site and testing its validity



Project Type: Infrastructure

Subject Type: Residential
Connection

Name: Ogero

Location: Metn-Beirut Lebanon

System:
- Underground Pipes
- Poles

Objective of the project:
- Transfer the aerial
telephone underground
- Providing
telecommunication
with underground
cables or poles.



Infrastructure - underground pipes plants :
Constructing high-quality land paths to transfer and place the aerial telephone network inside as well as providing telecommunications, with underground cables for new residential buildings.

Telephone Network | Pipes - Poles

- Pipes:**
- Underground cables are usually run through pipes.
 - Pipes typically varying between 5 and 10 cm in diameter.
 - Pipes are generally made of plastic.
 - Pipe presence can make it easier and cheaper to replace damaged cables or to lay new ones.
 - A manhole cover can be lifted up to provide access to a duct and a new cable.
- Poles**
- It is usually cheaper and quicker to install new cables.
 - Cables held on poles are more likely to be damaged.
 - May be considered unattractive by some residents



Microsoft Excel Data | Office - Work

- Excel Data:**
- Plan and organize work orders to be completed according to their area and the location of its distributors.
 - Money update of work orders completed and sold.

DATE	AREA	TYPE	STATUS	REMARKS
2023/01/01	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/02	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/03	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/04	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/05	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/06	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/07	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/08	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/09	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/10	Beirut	Poles	In Progress	Installation of poles for new residential buildings.

DATE	AREA	TYPE	STATUS	REMARKS
2023/01/01	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/02	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/03	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/04	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/05	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/06	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/07	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/08	Beirut	Poles	In Progress	Installation of poles for new residential buildings.
2023/01/09	Metn	Underground	Completed	Transfer of aerial network to underground pipes.
2023/01/10	Beirut	Poles	In Progress	Installation of poles for new residential buildings.

Underground Installations | Request

- Steps to Arrange for the Installation of pipes and Manholes**
- Check the region, select the main manholes to link the extension.
 - Saw road surface then indicate the way of the trench.
 - Cut the asphalt as indicated by the states of Ogero - width.
 - Excavate trench as indicated by the states of Ogero - height
 - Place the steel as well as the detailed tablet of concrete.
 - Install the pipes.
 - Pour concrete.
 - Backfill and compact trench.
 - Place a security yellow line to show the nearness of telephone links.
 - Install manhole (HH1, HH2 or HH3) according to the plan design.
 - Install permanent asphalt overlay.
 - Remove sediment controls.



Activities completed | On -Site

- Piping Plant :**
- Planning, teamwork and a flexible design can help installers implement an underground piping plant.
 - The project include the design and installation of underground pipes to link specific buildings to their distributor of its region.



Project Type: Infrastructure

Subject Type: Electricity
Distribution Grid

Name: Butech Utility Services

Location: Sahaileh - Lebanon

System: Underground Cables

Objective of the project:

- Providing electrical power with underground cables.
- High voltage transmission lines that carry power from distant sources to demand centers.
- Distribution lines that connect individual customers.



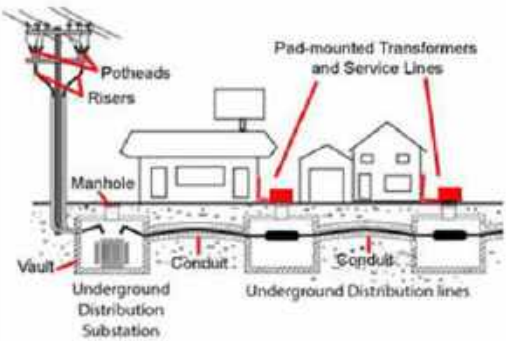
Infrastructure - underground cables plants :

BUS is responsible for providing a distribution service to customers that is as smooth and undisrupted as possible. Constructing high-quality land paths to provide high voltage transmission lines that carry power from distant sources to demand centers with underground cables.

Underground Distribution | Substation

An underground system may consist of these parts:

- Conduits.
- Duct Runs.
- Manholes.
- High-Voltage Underground Cables.
- Transform Vault.
- Riser.
- Transformers.



Administrative Work | Office

Paper Work:

- Planning and organizing work to be completed according to their area and their location.
- Good time management.
- Planning, teamwork and a flexible design can help installers implement underground cable plants.
- Making invoices throughout every completed phase of the project.
- Link between the labors - contractors as well as between contractors - BUS.



Gallery | Photos



Project Type: Infrastructure

Subject Type: Water Distribution
Grid

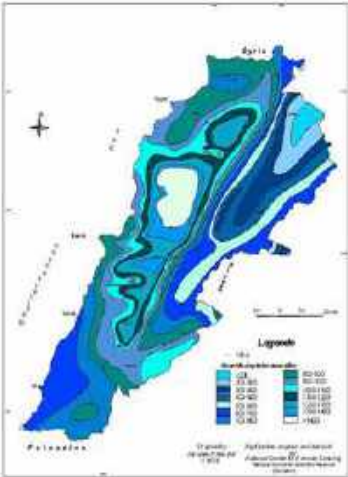
Name: Establishment of the Water
of Beirut & Mount Lebanon

Location: Jbeil - Lebanon

System: Piping Systems

Objective of the project:

- To execute the public design project to privatize and distribute the water resources.
- Piping and plumbing fitting.
- Water distribution networks that supply residential buildings.



Water Piping - Infrastructure :
The protection and the development of the natural resources of water, within the framework of safeguarding the environment and the nature equilibrium, is considered the core of the public utility.

Water Distribution | Pipes

- An underground system may consist of these parts:
- Conduits
 - Duct Runs
 - Manholes
 - PVC Fittings
 - Water Distribution Fittings
 - Accessories for underground utilities



Administrative Work | Office

- Paper Work:**
- Planning and sorting out work to be finished by their region and area.
 - Good time management.
 - Planning, cooperating and an adaptable outline can encourage to execute underground pipes plants.
 - Making invoices throughout each finished period of the venture.
 - Link between the labors - contractors as well as between contractors - E.B.M.L.



Gallery | Photos



Project Type: People for development

Subject Type: Focus on education

Name: AVSI (NGO) - Founded in 1972

Location: Mount- Lebanon (Ghadir)

Scope: A non-profit Organization, response to the need of millions of people: the need for normality and for stability that they have long lost.

Objective of the project:

- Sharing and creates an impact capable of generating a positive change
- To start from the value of the person, who is never defined by the circumstances in which s/he lives.
- The right to education, every child has the right to education and importantly any refugee child.
- Providing education and psychological support for vulnerable Syrian children.
- Helping take their minds off their past and into a brighter future
- Improving the quality of education, teaching the children, numbers, different languages, helping their imagination to be more creative.
- Simply, treating children and taking care of them like a family do.



AVSI - Non Governmental Organization (NGO):

AVSI, created in 1972, is a non-profit organization which carries out development cooperation and humanitarian aid projects throughout the world. AVSI has been present in the region for over 20 years, its regional headquarters is in Lebanon. For AVSI, refugees and displaced persons on the one hand, and host communities on the other, are the two sides of the same coin.

A Good Teacher | Education Project

- The capacity to make students aware of their potential, increasing their curiosity and confidence.
- Making the class as enjoyable as possible: "schools don't have to be perceived as prisons, but as a safe environment where to learn and play together."
- Using several Exercises and games to give them responsibility and trust.
- Separate the class in different groups to encourage teamwork and inclusion.
- Our work focuses on: young children (0-3 years): kindergartens, recreational activities, basic literacy. Children 4-15 at school: remedial courses, school integration for youth (16-25).



People for development



Teacher Training | Professional Training

Train teachers to adapt their training style with the introduction of innovative/blended learning models that enable them to teach their students and support them continuously even if they have moved to another community.

Develop specialized teacher training programs catering to the above challenges within the following type of institutions:

- Secondary Education
- Higher Education
- Adult Education
- Special needs Education: This focus is on the challenges of teaching traumatized children and young adults. In addition to those needing special assistance within their communities.



Gallery | Photos

