

## TECH-6: Curriculum Vitae (CV) for Proposed Professional Staff

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1. **Proposed Position:**

2. **Name of Firm:** Studio Ing. G. Pietrangeli s.r.l.

3. **Name of Staff:** **Alessandro CAGIANO DE AZEVEDO**

4. **Date of Birth:** 04-04-1975 **Nationality:** Italian

5. **Education:** MSc en Civil & Hydraulic Engineering, University of Rome, 2000

6. **Membership of Professional Associations:**

Member of Italian Consulting Engineers Register of Rome, 2001

Committee of the Italian Commission (ITCOLD), since 2014 to present

7. **Other Training:**

Lecturer on Dams and Hydropower Development, Continuing Professional Education (CPE), Italian Consulting Engineers Register of Rome, 2014/2015

Various technical specialization courses, among which:

- Dams and Hydropower Development, Italian Consulting Engineers Register of Rome, 2014/2015

8. **Countries of Work Experience:** Bosnia and Herzegovina, Ecuador, Ethiopia, Georgia, Israel, Italy, Malaysia, Mexico, Uganda, United Arab Emirates, Zambia, Zimbabwe.

9. **Languages:**

|            | <i>Speaking</i> | <i>Reading</i> | <i>Writing</i> |
|------------|-----------------|----------------|----------------|
| English    | Excellent       | Excellent      | Excellent      |
| Spanish    | Excellent       | Excellent      | Excellent      |
| French     | Excellent       | Excellent      | Good           |
| Portuguese | Good            | Fair           | Fair           |
| Italian    | Mother Tongue   |                |                |

10. **Employment Record:**

From: 2004 To: date  
Employer: Studio Ing. G. Pietrangeli s.r.l.  
Positions held:

From: 2002 To: 2003  
Employer: Impresa P. Cidonio S.p.a. (G.L.F. S.p.a.) (Italy)  
Positions held: Civil engineer involved in project quality control, quantity surveying, supervision of construction, tender document preparation for several civil works projects in Italy.

From 2000 To 2002  
Employer: Italconsult SpA  
Positions held: Employed at Abu Dhabi main office in hydrological studies and in design of hydraulic structures like pipelines, ground and elevated tanks, pumping stations,

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dams and pipe networks. Involved in tender documents preparation (technical and financial offers for design tendering), and in all site supervision activities.

### 11. Detailed Tasks Assigned

### 12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned:

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#### **BATOKA GORGE Hydro-Electric Scheme**

**Year:** 2014 – in progress

**Location:** Zambia and Zimbabwe

**Client:** Zambezi River Authority

**Main project features:** Batoka Gorge ( IP = 1600 MW ) is a hydropower plant located on the Zambezi River between Victoria Falls and the existing Lake Kariba. The project is a trans-boundary plant having the following basic features:

- Batoka Dam ( RCC Arch-Gravity Dam, H = 181 m, Crest Length = 767 m, Concrete volume V = 4 Mm<sup>3</sup> )
- Spillway ( Q= 20.000 m<sup>3</sup>/s, Radial gated on dam crest, No. 7 gates 14x13 m )
- Headrace Tunnels ( No. 4 (2+2) , D = 8,9 m, L = 250---450 m )
- Penstock Shaft (No. 4, D = 7 m, L = 120 m )
- Power House ( No. 2, underground type, No. 4x2 Francis Turbines, Q = 1000 m<sup>3</sup>/s, IP = 1600 MW )
- Transmission Lines ( L = 200 km - 330 kV in Zambia, L=140 km 420 kV in Zimbabwe )

**Position held:**

**Activities performed:** Pre-feasibility study (Confirmation of scheme layout), Feasibility Study, Tender Design, Tender Documents

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#### **Bumbuna HEP Phase II - Hydroelectric Project**

**Year:** 2014 – 2014

**Location:** Sierra Leone

**Client:** Salini Costruzioni S.p.A.

**Beneficiary:** Government of Sierra Leone

**Main project features:** The Bumbuna HEP – Phase 2, expansion works of the Bumbuna HPP, consist of:

BUMBUNA EXTENSION HEP:

- Power Intake ( Forebay = 150m, Intake = 8m)
- Waterway Tunnel ( L = 1900m, D = 6m)
- Penstock ( L = 500m, D = 4,8m)
- Power house ( No. 4 Francis turbines 4 x 33 MW , max head = 125 m, max discharge = 132 m<sup>3</sup>/s, IP = 132 MW)
- Tailrace Canal ( L = 1670 m, Bottom width = 16 m)

Moreover the study including also the upstream Yiben HPP comprehending:

YIBEN HEP:

- RCC Dam ( H = 86m, Crest Length = 665m, Concrete volume V = 0,95 Mm<sup>3</sup>)
- Power house (No. 2 Francis turbines 2 x 33 MW , max head = 81 m, max discharge = 47 m<sup>3</sup>/s, IP = 65 MW)

**Position held:**

**Activities performed:** Feasibility study

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#### **VRANDUK HYDRO POWER PROJECT (IP = 22 MW)**

**Year:** 2013 – in progress

**Location:** Bosnia and Herzegovina

**Client:** JP ELEKTROPRIVREDA BiH d.d.

**Main project features:** Vranduk HPP consists in a run-of-the-river power plant with an installed power of 22 MW. The main works are:

- Mobile Concrete Weir (H = 19 m, L = 119 m, No. 4 Radial Gates 10x12 m);
  - Intake (W = 21.6 m, H = 16 m , No. 3 Gates – No. 2 Auxiliary Gates + No. 1 Main Gate);
  - Power Tunnel (D = 6.6 m, L = 1,450 m)
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### - Power Houses No 2:

- Small Unit ( $Q = 18 \text{ m}^3/\text{s}$ ,  $H = 8.5 \text{ m}$ , No. 1 Kaplan S Turbine,  $IP = 1.3 \text{ MW}$ )
- Main Unit ( $Q = 100 \text{ m}^3/\text{s}$ ,  $H = 21 \text{ m}$ , No. 2 Kaplan S Turbine,  $IP = 2 \times 10 \text{ MW}$ )

### Position held:

**Activities performed:** Review of preliminary design, tender documents, assistance during procurement; Supervision of construction (review of design documents, project management, site management, monitoring and supervision of the works, etc.).

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### ULU JELAI – Hpp ( $IP = 382 \text{ MW}$ )

**Year:** 2013 – 2014

**Location:** Malaysia

**Client:** Salini S.p.A.

**Main project features:** This project includes the Ulu Jelai Hydroelectric Power plant.

The basic features are the following:

- Susu Dam (  $H = 80 \text{ m}$ , RCC type)
- Surge Shaft Upper portion (  $H = 40 \text{ m}$ ,  $D = 19 \text{ m}$  )
- Diversion tunnel (  $L = 207 \text{ m}$ ,  $D = 6.5 \text{ m}$ ,  $H = 6.5 - 7.3 \text{ m}$  )
- Rockfill Cofferdam (  $H = 14 \text{ m}$ ,  $L = 26 \text{ m}$  )
- Water transfer tunnels (  $L = 26 \text{ km}$  )

### Position held:

**Activities performed:** Consultancy for Construction design related to: Surge shaft, Diversion tunnel and Cofferdam

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### KOKHAV HAYARDEN – PSP

**Year:** 2013

**Location:** Israel

**Client:** Hutchinson Water International Holdings ( HWL )

**Main project features:** The basic features of this Pumping Storage Plant are the following:

- Upper Dam (Earthfill,  $H = 25 \text{ m}$ ,  $L = 1.8 \text{ km}$ ,  $\text{Vol.} = 1.5 \text{ Mm}^3$ , Live Storage =  $3.1 \text{ Mm}^3$  )
- Lower Dam (Rockfill w.,  $H = 18 \text{ m}$ ,  $L = 1.7 \text{ km}$ ,  $\text{Vol.} = 0.2 \text{ Mm}^2$ , Live Storage =  $2.8 \text{ Mm}^3$  )
- Headrace tunnel (  $L = 755 \text{ m}$ ,  $D = 5.5 \text{ m}$ , Concrete Lining )
- Upper Surge Shaft (  $H = 48 \text{ m}$ ,  $D = 14 \text{ m}$  )
- Penstock (  $H = 670 \text{ m}$ ,  $D = 4$  )
- Underground Power House (  $N^{\circ} 2$  Francis turbines,  $IP = 300 \text{ MW}$  )
- Tailrace Tunnel (  $L = 1.6 \text{ km}$ ,  $D = 5.5 \text{ m}$  )

### Position held:

**Activities performed:** Due diligence of the existing studies: Feasibility design, Final design, Tender documents and Contractor's proposals.

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### NAMAKHVANI HPP Cascade (Tvishi + Namakhvani + Zhoneti, $IP_{\text{tot}} = 450 \text{ MW}$ )

**Year:** 2012 – in progress

**Location:** Georgia

**Client:** JSC Namakhvani hpp Cascade

**Main project features:** The project envisages the construction under an EPC contract of three hydropower projects with the following basic features :

#### Tvishi:

- CVC gravity dam ( $H = 56.5 \text{ m}$ ,  $L = 100 \text{ m}$ ,  $V_{\text{res}} = 13.1 \text{ Mm}^3$ )
- Open air Power house (No. 2 Kaplan turbines,  $IP = 2 \times 50 \text{ MW}$ )

#### Namakhvani:

- Concrete arch dam ( $H = 111.0 \text{ m}$ ,  $L = 315 \text{ m}$ ,  $V_{\text{res}} = 156 \text{ Mm}^3$ )
- Open air Power house (No. 3 Francis turbines,  $IP = 3 \times 85 \text{ MW}$ )

#### Zhoneti:

- Rockfill dam with bituminous core ( $H = 31 \text{ m}$ ,  $L = 174 \text{ m}$ ,  $V_{\text{res}} = 12.5 \text{ Mm}^3$ )
  - Open air Power house ( No. 2 Kaplan turbines,  $IP = 2 \times 50 \text{ MW}$  )
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**Position held:**

**Activities performed:** Review and Upgrade of Feasibility Study, Tender Documents, Consultancy for Tender, Assistance during procurement, Supervision of Construction

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**GRAND ETHIOPIAN RENAISSANCE Hydroelectric Power Plant ( IP = 6,000 MW )**

**Year:** 2010 – in progress

**Location:** Ethiopia

**Client:** Salini Costruttori S.p.A.; Beneficiary : EEPKO

**Main project features:** The hydroelectric power plant ( IP = 6,000 MW ) includes:

- Reservoir (  $V_{RES} = 63,000 \text{ Mm}^3$  )
- Main dam ( Gravity RCC type,  $H = 155 \text{ m}$ ,  $L = 1,780 \text{ m}$  )
- Saddle dam ( Rockfill dam type,  $H = 45 \text{ m}$ ,  $L = 4,800 \text{ m}$  )
- Spillway ( No. 6 gates  $14 \times 15.5 \text{ m}$ ,  $Q = 10,500 \text{ m}^3/\text{s}$  )
- Power Waterways (Penstocks No 15,  $L = 180 \text{ m}$ ,  $D = 8.5 \text{ m}$  )
- Diversion culverts ( N°4,  $L = 210 \text{ m}$ ,  $D = 8 \text{ m}$ , Diversion Flood =  $3,000 \text{ m}^3/\text{s}$  )
- Powerhouses (No. 2, Outdoor,  $Q = 1,550 \text{ m}^3/\text{s}$ , Design Head =  $135 \text{ m}$ , N°10+6 Francis Turbines, Energy production =  $15700 \text{ GWh/year}$  )
- Switchyard ( No. 2, No. 15 bays  $400 \text{ kV}$ , No. 15+30 transf.  $20/400 \text{ kV}$  )
- Bridge (  $L = 260 \text{ m}$ ,  $W = 10 \text{ m}$ , Max span length =  $72 \text{ m}$ , Piers No 6 )

**Position held:**

**Activities performed:** Feasibility study, Basic Design, Final Design (Level 1), Construction Design (Level 2), Supervision of Construction for the EPC Contractor

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**BUJAGALI Hydropower Plant ( IP = 250 MW )**

**Year:** 2009 - 2012

**Location:** Uganda

**Client:** Salini Costruttori S.p.A.; Beneficiary: Ministry of Energy and Mineral Development, Uganda

**Main project features:** Bujagali is a hydroelectric power plant (IP = 250 MW) including the following works:

- Clay Core Rockfill Dam (  $H = 30 \text{ m}$ ,  $L = 560 \text{ m}$  )
- Spillway (  $Q = 4,500 \text{ m}^3/\text{s}$ , gated sill  $L = 19 \text{ m}$ , un-gated sill  $L = 80 \text{ m}$  )
- Intake ( N°2 wheel gates, dimensions =  $9 \times 10 \text{ m}$  )
- Open Air Power House inside dam body (  $5 \times 50 \text{ MW}$  Kaplan turbines )
- Substation ( Voltage  $132 \text{ kV}$  )

**Position held:**

**Activities performed:** Construction Design (in collaboration with others), Construction Drawings, Technical Assistance on Site (in collaboration with others)

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**CHESPI Hydropower Plant ( IP = 468 MW )**

**Year:** 2009 - 2012

**Location:** Ecuador

**Client:** Hidroequinoccio HEQ S.A.

**Main project features:** Chespi hydroelectric project (IP = 468 MW) includes the following works:

- Reservoir (Live Storage =  $2.3 \text{ Mm}^3$  )
- Arch dam (  $H = 68 \text{ m}$ ,  $L = 144 \text{ m}$ ,  $V = 45,000 \text{ m}^3$  )
- Penstock (  $L = 1,000 \text{ m}$ ,  $D = 4\text{-}3.4 \text{ m}$  )
- Headrace tunnel (  $L = 18.3 \text{ Km}$ ,  $D = 5.4 \text{ m}$  )
- Tailrace tunnel (  $L = 6.3 \text{ Km}$ ,  $D = 6.4 \text{ m}$  )
- Surge Shaft (  $H = 123 \text{ m}$ ,  $D = 15 \text{ m}$  )
- Underground Power House ( No.  $4 \times 117 \text{ MW}$  Pelton turbines )

**Position held:**

**Activities performed:** Investigations, Preliminary, Final and Detailed Design, Tender Documents

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### **GIBE V Hydroelectric Power Plant ( IP = 660 MW )**

**Year:** 2008 - 2009

**Location:** Ethiopia

**Client:** Salini Costruttori S.p.A.; Beneficiary : EEPCO

**Main project features:** Gibe V (IP = 660 MW) is the 5<sup>th</sup> stage of the Gibe-Omo cascade and includes the following works :

- RCC Gravity Dam ( H = 78 m, L = 580 m )
- Gated Spillway (N°10 gates, Dimensions 12x19 m)
- River Diversions Works (N°2 culverts, D= 12 m, L=240 m)
- Cofferdam ( Rockfill, H = 20 m, L = 240 m )
- Outdoor Power House ( N° 10 Francis turbines, IP = 10x66 MW )

**Position held:**

**Activities performed:** Reconnaissance Project, Feasibility Study

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### **GIBE IV Hydroelectric Power Plant ( IP = 1,480 MW )**

**Year:** 2008 - 2009

**Location:** Ethiopia

**Client:** Salini Costruttori S.p.A., Beneficiary : EEPCO

**Main project features:** Gibe IV (IP = 1,480 MW) is the 4<sup>th</sup> stage of the Gibe-Omo cascade and includes the following works :

- RCC Gravity Dam ( H = 165 m, L = 725 )
- Gated Spillway ( N°9 radial gates, Dimen. 12x19, Q = 22,000 m<sup>3</sup>/s)
- Power Waterways ( No 2, L = 0.8 km, D = 12 m )
- D/S Rockfill Cofferdam ( H = 27 m, L = 117 m )
- Outdoor Power House (N°8x185 MW Francis turbines)

**Position held:**

**Activities performed:** Reconnaissance Project, Feasibility Study

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### **KYOGA-NILE HPPs Cascade (Kamdini + Kibaa + Murchison, IP\_tot = 6,010 MW)**

**Year:** 2008 - 2009

**Location:** Uganda

**Client:** Salini Costruttori S.p.A.; Beneficiary: Ministry of Water and Environment

**Main project features:** The basic features of the cascade are the following.

Kamdini (Karuma) is the 1<sup>st</sup> plant of the Kyoga-Nile HPPs cascade and includes :

- Rockfill Dam ( H = 30 m, L = 480 m, V<sub>res</sub> = 68 Mm<sup>3</sup> )
- Headrace Canals (L = 5.7 km, Bottom width =15 m)
- Tailrace Tunnels (N° 2, L = 4 km, D = 14 m)
- Underground PH (N°10 Francis turbines, IP = 1,260 MW, H<sub>net</sub> = 64 m)

Kibaa is the 2<sup>nd</sup> plant of the Kyoga-Nile cascade and includes :

- Rockfill Dam ( H = 53 m, L = 2,150 m, V<sub>RES</sub> = 300 Mm<sup>3</sup> )
- Headrace Canals (L = 10 km, Bottom width = 14 m)
- Tailrace Tunnels (N°2, L = 4.5 km, D = 14 m)
- Underground PH (N°16 Francis turbines, IP = 2,600 MW, H<sub>net</sub> = 131 m)

Murchison is the 3<sup>th</sup> plant of the Kyoga-Nile cascade and includes :

- Rockfill Dam ( H = 44 m, L = 1,300m, V<sub>RES</sub> = 170 Mm<sup>3</sup> )
- Headrace Canal (Bottom Width = 14 m; L = 0.7 km )
- Tailrace Tunnels (N° 2, L = 5.5 km, D= 14 m)
- Underground PH (N° 14 Francis Turbines, IP = 2,150 MW, H<sub>net</sub> = 107 m)

**Position held:**

**Activities performed:** Pre-feasibility study, Feasibility study

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### **ARCEDIANO Pumped Storage Plant ( IP = 296 MW )**

**Year:** 2006

**Location:** Mexico

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**Client:** CIPRO, Coordinacion de ingenieria de proyectos S.C

**Main project features:** The Arcediano Pumped storage plant (IP = 296 MW) is envisaged on the shores of Arcediano lake, created for water supply, and includes the following works :

- Penstock (L = 680 m, D = 2.8 m)
- Penstock shaft (L = 300 m, D = 2.8 m)
- Underground Power House with No.2 Francis turbines:
  - Rated Power (Turbine mode) each = 120 MW
  - Rated power (pumping mode) each = 148 MVA

**Position held:**

**Activities performed:** Basic design (in collaboration with Cipro), Technical specification of Electromechanical and Hydromechanical works, Hydraulic studies

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### **BELES Multi-Purpose Project ( IP = 460 MW )**

**Year:** 2005 - 2011

**Location:** Ethiopia

**Client:** Salini Costruttori S.p.A., Beneficiary: EEPKO

**Main project features:** Beles is a Multi-Purpose Project on Lake Tana for Hydroelectric purposes and irrigation. The main works of the project include :

- The use of the natural Lake Tana as reservoir (Total Storage = 32,270 Mm<sup>3</sup>)
- Intake ( No. 5+2 bays, W = 43 m, Q = 160 m<sup>3</sup>/s )
- Headrace tunnel ( L = 11 km, D = 8 m )
- Surge Shaft ( L = 91 m, D = 18 m )
- Penstock Shaft ( L = 286 m, D = 6.5 m )
- Underground Power House ( Dimensions = 82x17x38 m, No. 4 Francis turbines, Design Head = 332 m, Design flow = 160 m<sup>3</sup>/s, IP = 4x115 MW)
- Transformer cavern (Dimensions 41x13x10 m, No. 4 OFWF transformers, 400/15 kVA)
- Tailrace tunnel ( L = 7 km, D = 8 m )

**Position held:**

**Activities performed:** Feasibility study, Basic Design, Final design, Construction design, Consultancy during construction

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### **GIBE III Hydroelectric Power Plant ( IP = 1,870 MW )**

**Year:** 2005 – in progress

**Location:** Ethiopia

**Client:** Salini Costruttori S.p.A., Beneficiary : Ethiopian Electric Power Corporation

**Main project features:** Gibe III (IP = 1,870 MW) is the 3<sup>rd</sup> stage of the Gibe-Omo cascade and will become the world's highest RCC dam. The project includes the following works :

- Reservoir ( V<sub>RES</sub>=14,700 Mm<sup>3</sup>)
- RCC Gravity Dam ( H=235 m, L<sub>CREST</sub>=620 m, V<sub>RCC</sub> = 6.5 Mm<sup>3</sup> )
- Spillway ( at dam crest, No. 7 gates 14x17.5 m, Q = 18,600 m<sup>3</sup>/s )
- Middle outlet ( in the dam body, No.2, Q = 1600 m<sup>3</sup>/s, L=100 m, D=5m)
- Rockfill Cofferdam (H = 50 m, L = 205 m, Zig-Zag PVC membrane)
- Main Diversion Tunnels ( No. 2, L = 1.1 km, D = 14 m )
- Preliminary Diversion Tunnel (No. 1, L= 1.1 km, D= 7 m)
- Power Waterways ( No 2, L = 1.0 km, D = 11 m )
- Surge Shaft ( No. 2, D = 20 m, H = 60 m )
- Outdoor Power House ( N°10x187 MW Francis turbines, Design Head = 211 m, Q = 950 m<sup>3</sup>/s, Dimensions = 220 x 34 x 46 m )
- Switchyard ( No. 5 line bays 400 kV, No. 5 transformers 15/400 kV )

**Position held:**

**Activities performed:** Reconnaissance design, Investigations, Feasibility Study, Basic Design, Final Design, Construction Design, Technical Supervision during Construction

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### **GIBE II Hydroelectric Power Plant ( IP = 420 MW )**

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**Year:** 2004 - 2010

**Location:** Ethiopia

**Client:** Salini Costruttori S.p.A., Beneficiary : EEPCO

**Main project features:** Gibe II (IP = 420 MW) is the 2<sup>nd</sup> project of the Gibe-Omo cascade, making us of the waters regulated by the upstream Gilgel Gibe dam, and includes the following works:

- Concrete Gravity Dam ( H=49m, L=140m,  $V_{RES} = 1.9 \text{ M}^3/\text{s}$  )
- Spillway ( at dam crest,  $Q = 2325 \text{ m}^3/\text{s}$  )
- Intake ( L = 24 m, H = 33 m, No. 2 roller gates )
- Power Tunnels ( L = 26 km, D = 6 m,  $Q = 101 \text{ m}^3/\text{s}$  )
- Penstocks ( No 2, L = 1.2 km, D = 2.4 m )
- Surge Shaft ( H =94 m, D = 18 m )
- Power House (Outdoor, No. 4x105 MW Pelton turbines, Design Head = 510 m,  $Q_{des} = 110 \text{ m}^3/\text{s}$ , Dim. 120 x 25 x 36 m)
- Switchyard ( No. 2 line bays 400 kV, No. 4 transformers 400/15 kV )
- Access Roads ( No. 3, L = 30 + 35 + 5.5 km )

**Position held:**

**Activities performed:** Investigations, Basic Design, Final Design (Level 1 design) and Construction Design (Level 2 design) , Technical Assistance during Construction

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### LIDO DI JESOLO – golf club resort

**Year:** 2003

**Location:** Lido di Jesolo (VE) - Italy

**Client:** Consorzio Golf Club Lido di Jesolo

**Main project features:** Construction of 18 hole golf course compound including:

- 26 houses for a total of 217 apartments
- swimming pool
- restaurant and club house

**Position held:** Project Coordinator, Assistant to the Resident Engineer

**Activities performed:** Construction design, site quality control, supervision of works.

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### CIVITAVECCHIA PORT – breakwater

**Year:** 2003

**Location:** Civitavecchia - Italy

**Client:** Ministero dei Trasporti e Autorita' Portuale di Civitavecchia

**Main project features:** Construction of prolongation of the main Civitavecchia Port breakwater (average height of 36m, realized with concrete caissons) from Ch. 1372.00 to Ch. 1880.50.

**Position held:** Civil-Hydraulic Engineer in assistance to the resident engineer

**Activities performed:** Supervision of civil works and caissons building quantity survey

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### CIVITAVECCHIA PORT – terminal container dock

**Year:** 2003

**Location:** Civitavecchia - Italy

**Client:** Ministero dei Trasporti e Autorita' Portuale di Civitavecchia

**Main project features:** Construction of the new maritime terminal container realized with concrete caissons (average height of 24m) for a total length of 220m.

**Position held:** Civil-Hydraulic Engineer in assistance to the resident engineer

**Activities performed:** Supervision of civil works and caissons building quantity survey

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### ROME MAIN OFFICE – TENDER PREPARATION

**Year:** 2002 - 2003

**Location:** Rome - Italy

**Client:** Impresa Cidonio SpA

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**Main project features:** Tender For Construction of big maritime works all over the Italy. Assistance in supervision and management of the following works:

- Port of Livorno: Lavori per la realizzazione del Nuovo Molo Italia", "Resezione Calata Bendasi".
- Port of Palermo: "Prolungamento del Molo Foraneo".
- Port of Civitavecchia: "Prolungamento dell'antemurale Cristoforo Colombo". "Opere marittime per il nuovo Terminal Container".

**Position held:** Design Engineer, Project Manager

**Activities performed:** Tender Documents, Supervision of Works, Quality Control

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### ABU DHABI MAIN OFFICE

**Year:** 2000 - 2002

**Location:** Abu Dhabi - U.A.E.

**Client:** Abu Dhabi Water Authority

**Main project features:** Design of hydraulic and civil works, all over the Arab Emirates territory and tender documents preparation for the following hydraulic works.

- Replacement of AC pipes at Sila, Ghayathy and Dalma Island
- Water supply Scheme for New Dhow Harbour
- Sweihat to Silaa distribution network
- Construction of 1000 mm Water Pipeline From Shuwaihat To Silaa
- Pumping Main At Mirfa
- Construction of Additional Reservoirs at Units I, II and III
- Delma Severage Sistem
- Baaya Sila Sewerage Sistem
- Jabel Dhanna to Ghaiathi pump station rehabilitation
- Water Supply Scheme For Haramiya And Grain Al Ayesh Island
- Water Supply to Al Hail Island, Raha Beach, Golf Club, Umm Al Nar Refinery and Abu Dhabi AirPort
- Water Supply Scheme For Haramiya And Grain Al Ayesh Island
- Dams and recharge Facilities in Wadi Al Siji in the U.A.E.
- Water Supply Scheme For Haramiya And Grain Al Ayesh Island
- Water Supply to Al Hail Island, Raha Beach, Golf Club, Umm Al Nar Refinery and Abu Dhabi AirPort
- Water supply for different areas within Liwa Township

**Position held:** Design Hydraulic Engineer

**Activities performed:** Preliminary and Construction Project, Supervision and Tender Document

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### Publications:

- *Slope Stability Monitoring: An Ethiopian Case Study (Gibe III Power House)*, Alessandro Cagiano, Giuseppe Pittalis, Vincenzo Millesi, Africa 2013

### 13. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.



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\_\_\_\_\_  
*[Signature of staff member or authorized representative of the staff]*

Date: \_\_\_\_\_  
*Day/Month/Year*

Full name of authorized representative: \_\_\_\_\_