



## **Borislav Georgiev Petrushev**

### **Curriculum Vitae**

**Borislav Georgiev Petrushev**  
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### **Professional experience**

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- **2015- Present - VA Elkraft AB**  
**Relay Protection Engineer**  
Electrical design and commissioning on substations 6kV-400kV, parameterization and commissioning of relay protections from ABB, Siemens, Alstom/Areva,
- **2015- 2017 - Interest Ltd.**  
**Relay Protection Engineer**  
Configuration of relay protection devices.  
Configuration of automatic controllers.  
Commissioning and testing of relay protection devices.  
Commissioning works of secondary connection circuits.  
Commissioning of primary equipment.
- **2011-2015 - EL-TEST Ltd.**  
**Relay Protection Engineer**  
Commissioning works in substations 6kV-400kV, parameterization and commissioning of relay protections from ABB, Siemens, Alstom/Areva, Vamp in Bulgaria and abroad.  
Engineering and Commissioning of Control and Protection SCADA Substation Automation.  
Technical Project Manager for secondary and primary electrical equipment installation.  
Inspector in Inspection body of type "C". Analysis of electrical networks, calculation of short-circuit currents and calculating settings of relay protection.
- **2009 - 2011 - Electric City Design Ltd.**  
**Electrical Designer**  
Designing of Medium voltage electrical distribution lines.
- **2008 - 2009 - Toplik-ko Ltd.**  
Automation technician for air conditioning and heating.

## Education

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/2011-2013/“Technical University”- Sofia

Master degree “Automation of electrical substation and power plants”  
Master of Electrical Engineering

/2007-2011/“Technical University”- Sofia

Specialty “Electrical substation and power plants”  
Bachelor in Electrical Engineering

/2001-2007/ “Professional School of Electrical and Automation”- Sofia

Specialty “Electrical substation and power plants”

## Personal skills and competences

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Experienced Engineer with a demonstrated history of working in commissioning and maintenance on power plant and substation up to 400kV . Skilled in Relay protection device, GOOSE, AutoCAD, Power Distribution, Manufacturing, Electricity, and Transformer. Strong engineering professional graduated from Technical University Sofia.

### Software skills and competences:

Microsoft office, ETAP, CAP505, PCM600, DIGSI4.x, MiCOM S1 studio, SFT2841, SFT2885, Frejawin, Test Universe 3.xx, RTUtil560, TwidoSoft, TwidoSuite, , AutoCAD

### Certificates:

1. PACiS C264 Technical Training Level 1 and 2, Schneider Electric Bulgaria
2. Diagnosis and control of grounding systems, Paradise Electric Consult

### Languages:

English - good knowledge

Driving license: Yes

## Main Projects

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### **KNAT 130(GIS)/10kV(Ellevio/Karlstad Elnät) 2017, Sweden**

Östra Mottagnings station, configuration (61850), FAT/SAT, Ongoing project.

### **Skogstorp130/10kV(EON), 2017, Sweden**

Configuration, SAT/FAT.

(ABB and Siemens equipment)

### **Minninge 132kV, Nyköping, (Vattenfall), 2017,Sweden**

General commissioning, configuration and testing of ABB REL670, RET670,  
There are 7 bays 130kV with RED670.

### **Asarum, 2017, Sweden**

Configuration and FAT

### **Fjärdsjömåla, 2016, Sweden**

General commissioning, configuration and testing of ABB REL670, RET670, MiCOM P132 protection devices. GOOSE configurations for "Parallel tap changer control by minimize circuit current"

ss Fjärdsjömåla 130kV/11kV, There are 2 bays 130kV with REL670, 2 power transformers 10MVA with RET670, 16 bays 10kV.

### **Motola, Sweden, 130/22 kV**

General commissioning, Configuration and testing protection devices  
RED670

### **Söderåsen 130kV(EON) 2016, Sweden**

configuration of relay protection and FAT/SAT  
(ABB and Siemens equipment)

### **Moheda (EON), 2016, Sweden**

Configuration/SAT.

(ABB and Siemens equipment)

### **Ryd (EON), 2016, Sweden**

Configuration/SAT.

(ABB and Siemens equipment)

### **SCANIA Ställverk 20, Sweden**

Configuration (Siemens Siprotec 4)/SAT

### **Javra, Sweden, 400 kV / 220 kV Transformers**

Configuration and testing protection devices with communication over IEC61850:  
2 pcs. RET670, 2 pcs. 7SJ62, 2 pcs. 7UT62

### **Motola, Sweden, 130/22 kV**

Configuration and testing protection devices with communication over IEC61850:  
12 pcs. REF620, REF615, REV615, RED670, REU615

### **Sparreholm, Sweden**

Configuration and testing protection devices:  
10 pcs. REF615, REU615, REV615

### **Rosersberg ICT(Ericsson), Sweden. 2015/2016**

Commissioning of MV-SWG(20/10kV), Siemens Siprotec 4, with 61850.

### **TPP “AES Galabovo”, Bulgaria**

Relay protection configuration and testing for power line “Sokolec” 400kV and “Rozovec” 400kV  
(ABB equipment)

### **SS “GPP2” Lukoil Neftohim, Bulgaria**

General commissioning works.  
Calculating settings of relay protection  
Relay protection configuration and commissioning works.  
(Siemens equipment)

### **Nuclear Power Plant “Kozlodui” Bulgaria**

Relay protection configuration and commissioning works.  
Configuration of automatic controllers for specific automatic load transfer.

### **“Simitli” and “General Toshevo” Railway substation, 110 / 17, 5 kV**

Relay protection configuration and commissioning works.  
(Siemens equipment)

### **HPP “Samoranovo”, Bulgaria**

General commissioning works.  
Relay protection configuration and commissioning works.  
(Schneider electric equipment)

### **“SOL” 110/6,3kV Substation and Plant, Bulgaria**

General commissioning works.  
Calculating settings of relay protection  
Relay protection configuration and commissioning works.  
(ABB equipment)

**HPP “Kokaliane”, Bulgaria**

General commissioning works.

**HPP “Pasarel”, Bulgaria**

General commissioning works.

Relay protection configuration and commissioning works.

(ABB equipment)

**HPP “Trebisht”, Albania**

General commissioning works.

Relay protection configuration and commissioning works.

(ABB equipment)

**HPP “Vlushe”, Albania**

General commissioning works.

Relay protection configuration and commissioning works.

(Schneider electric equipment)

**HPP “Dardha”, Albania**

General commissioning works.

Relay protection configuration and commissioning works.

(Schneider electric equipment)

**„ZLATITZA” 400/110/31,5kV substation**

General commissioning works.

**„Chervena mogila” 400/110/31,5kV substation**

General commissioning works.

**HPP “Ripa”, Albania**

Technical Project Manager.

General commissioning works.

Relay protection configuration and commissioning works.

(SEL and Vamp equipment)

**HPP “Dicance”, Kosovo**

Technical Project Manager.

General commissioning works.

Relay protection configuration and commissioning works.

(ABB equipment)

**PhVPP “Tchukanest”, Rumania**

Relay protection configuration and commissioning works.

**PhVPP “Vieru”, Rumania**

Relay protection configuration and commissioning works.

### **SS “Tcherganovo”, Bulgaria**

General commissioning works.

Relay protection configuration and commissioning works.

### **SS “Kazanlak”, Bulgaria**

General commissioning works.

Relay protection configuration and commissioning works.

(Schneider electric and SPRECHER equipment)

### **SS“Latch”,**

General commissioning works.

Relay protection configuration and commissioning works.

(ABB equipment)

### **SS “Tcherganovo”, “Kazanlak”, “Latch”, “Sveti Nikola”, “Vranino”, “Balgarevo”**

Maintenance.

## **Courses**

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### **Relay Protection REx670**

EL-TEST Ltd., 201402— 201402

### **ABB REF541**

EL-TESTnLtd., 201412— 201412

### **Testing relay protection devices by Omicron CMC356**

Omicron, 201501 — 201501

### **Test primary equipment by Omicron CIBANO**

Omicron, 201612— 201612

The CIBANO 500 circuit breaker test system combines a microohmmeter, timing analyzer, and a coil and motor supply in a single device. This enables all important circuit breaker tests to be carried out even when a station battery is not available.

### **ABB RTU650**

EL-TEST Ltd., 201411 — 201411

### **PACiS C264**

Technical Training Level 1 and 2, Schneider Electric Bulgaria, 201509— 201609

(1 år)

MiCOM C264 is the compact and modular substation and bay controller, communicating with IEDs and SCADA, acquiring input/outputs (I/O) or measurements and providing open automation processing in demanding electromagnetic environments

### **Diagnosis and control of grounding systems**

Paradise Electric Consult Work experience , 201509