CURRICULUM VITAE

Last Name: MAMALYGA

First Name: Volodymyr (Vladimir)

Citizenship: UKRAINE

Civil status: Married

Position:

- Director of Private company "Electrical Mechanics"
- Executive Director of All-Ukrainian public organization "Energy Auditors & Energy managers Supreme Council of Ukraine"
- Professor of National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

Company name: Private Company "Electrical Mechanics".

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CAREER SUMMARY:

- Director & Owner of Private Company "Electrical Mechanics" (energy, environment and financial consulting; performance contracting; energy audit; energy management)
- Executive director of All-Ukrainian public organization "Energy Auditors & Energy managers Supreme Council of Ukraine"
- Consultant of Ukrainian Parliament in sphere of energy saving
- Ph. D., Professor of Kiev Polytechnic Institute
- Executive Secretary of Certification Council of Ministry of Education of Ukraine (licensing, accreditation of high educational organization in energetic, electromechanical and electrical engineering)
- Science Secretary of Science-Expert Council (Ministry of Education of Ukraine) in electromechanical and electrical engineering
- Chief of experts command of the Council of Central energy audit group (State Committee of Ukraine of Energy Saving) etc.

SUMMARY OF OUALIFICATIONS:

Energy & environment management; Energy & environment audit; Project management; Business Planning (design and calculation of economical and technical aspects of investment projects); Management of self-financial organization; Scientific research and practice in energy saving and mufti-motor electric drive systems; Public relations (including articles in central Ukrainian magazines & TV); Teaching.

AREAS OF EXPERTISE

1) Energy Saving (technical, financial and managerial aspects):

- **Energy auditing** (presently we are focusing on large companies with the value of cost of annual consumption more than \$10,000,000.0... \$40,000,000.0, such as Thermal Power Station, Mining Companies, Gas and Oil pipe-line and so on). While energy auditing one of the iron ore-dressing company in Ukraine, We have done the following works:
- 1) **Some elements of** *disclosing*, including the disclosing of manufacturing expenses structure in 1990-1997 in comparable prices (in 1997 the level of prices in Ukraine was more than 100,000 times as much as that in 1990; the ratio between the expenses for purchased goods and materials, energy resources and the like has also changed). All this has become the basis for the calculation of the enterprise *break-even point* depending on the value output, the quantity of expenses for wages (2 versions: a «wage freeze» and a wage change in proportion to the output value change) and the level of losses from barter. The calculations above have substantiated the impossibility of the rise in wages in the near future and allowed the enterprise top management to enter into an agreement with Trade Unions on the «wage freeze» until the enterprise becomes profitable.
- 2) The specific consumption of energy resources has been analyzed. As a result the procedure for the calculation of the specific energy-resources consumption depending on the change in the output volume has been worked out. This procedure has offered an opportunity to analyze the personnel work effectiveness when the output volume increases. Such an approach permitted to detect the misappropriation of more than \$500,000 worth of diesel fuel during 1996-1997 years.
- 3) Some energy-saving measures have been worked out. The realization of cost-free (no-cost) or organizational energy conservation opportunities (ECO) will result in more than 36% saving in expenditures for energy resources. For example, only the removal of 3 old palletizing machines «OK-108» will give the annual saving of not less than \$5,000,000...\$6,000,000.
 - Energy management (energy management system designing).
 - Energy saving in electric drive systems.
 - Specific energy consumption analyses.

2) Electric drive systems.

Simulation, calculation and designing, including electrical and mechanical parts of electric drive like complex electromechanical system.

Load balancing in multiemotors electric drives.

3) Belt conveyors.

Simulation, calculation and designing the belt conveyors, like complex electromechanical system which consists of electrical and mechanical parts. Design the systems for protection against the skidding, linear tearing of conveyor belt, steady oscillating mode followed by skidding of the second along the belt movement drive drum (I have registrated this regime for the first time), etc.

4) Teaching.

EDUCATIONAL BACKGROUND

Institution and Location	Degree and Field of Study	Data
1	2	3
International Management Institute	MBA - Master of Business	1997-
(IMI-KYIV, Ukraine)	Administration	-1998
USAID financed Program	Diploma No. 436	
National Technical University of Ukraine	ENERGY MANAGER	1996-
"Kyiv Polytechnic Institute"	Diploma No. 00012	-1997
TACIS Program No. EUK 9406		
(KYIV, Ukraine)		
AEE - ACEM training program	CERTIFIED ENERGY	1996
(KYIV, Ukraine)	MANAGER Diploma No. 0044821	
National Technical University of Ukraine	Ph. D. (Candidate of technical	1988
"Kyiv Polytechnic Institute"	sciences) in automation control in	
(KYIV, Ukraine)	electric drive systems of belt	
	conveyors	
	Diploma No. 112350	
	Professor	
N	Diploma ДЦ AP№005922	1052
National Technical University of Ukraine	Honor Diploma of Electrical	1973-
"Kiev Polytechnic Institute"	Engineer	1979
(KYIV, Ukraine)	Diploma No. 030731	1000
TRIGEN - Philadelphia Energy Corporation;	Training in US companies	1998
CINERGY - Cincinnati Energy Corporation	Program in Energy and General	
USEA, USA	Management, Investment project in	
	energetic and energy saving;	
	Business Communication,	
	Marketing and Finance	
Moody's Investors Service; ABN Amro	Short-term training	
Bank; The World Bank Group	Program in financing and financial	
USEA, USA	consulting	
MTP	Managers' Training Program	2007
TACIS Program (Denmark, Austria, Poland)	(4 week program for TOP	•
211022 110gram (20mining, 110bira, 10mini)	management): ENERGY SAVING	
SYSTEM OF INTERNATIONAL	"Auditor of Energy Management	2012
CERTIFICATION – SIC	Systems"	
	according to SIC # ISO50001/15-1	
	Certificate # SIC.02.181	
UNITED NATIONS INDUSTRIAL	Energy Management System	2016-
DEVELOPMENT ORGANIZATION	Expert Level Course	2017
UNITED NATIONS INDUSTRIAL	Certificate of Qualification	2017
DEVELOPMENT ORGANIZATION	UNIDO EXPERT	
	Energy Management System	
	Inline with ISO 50001	
UNITED NATIONS INDUSTRIAL	Energy Management System	2017
DEVELOPMENT ORGANIZATION	Training of Trainers	

EMPLOYMENT HISTORY

present time

- 1. Diagnostics, adjustment and modification of electric drive systems (electromechanical equipment assembling and maintenance) at:
- all Ukrainian iron ore-dressing companies (total productivity more than 40% of former USSR iron ore):
- Northern iron ore-dressing company (Krivoy Rog, Ukraine);
- Southern iron ore-dressing company (Krivoy Rog, Ukraine);
- Central iron ore-dressing company (Krivoy Rog, Ukraine);
- Novokrivorozhsky iron ore-dressing company (Krivoy Rog, Ukraine);
- Inguletsky iron ore-dressing company (Krivoy Rog, Ukraine);
- Artyoma #2 Mine iron ore-dressing company (Krivoy Rog, Ukraine);
- Other enterprises:
- Yavoriv Sulphur Company (Lviv region, Ukraine);
- Odessa Refinery (Odessa, Ukraine);
- Volnogorsk Titanium Mining Company (Dnepropetrovsk region, Ukraine);
- Ordzhonikidze Manganese Company (Dnepropetrovsk region, Ukraine).
- 2. Standard No. 0195U025335 of the Ministry of Coal Mining Industry of Ukraine "Belt conveyors. Method of selection and calculation of the drive";
- 3. National Standard of Ukraine ДСТУ 3886-99 "Energy saving. Electric drive systems. Method of analyses and selection".
- 4. National Standard of Ukraine ДСТУ ISO 13600-2001 "Technical energy systems. Basic concepts"
- 5. National Standard of Ukraine ДСТУ ISO 13601-2001 "Technical energy systems. Structure for analysis. Energy ware supply and demand sectors".
- 6. National Standard of Ukraine ACTY 4065-2001 "Energy saving. Energy audit. General technical requirements".
- 7. National Standard of Ukraine ACTY 4154-2003 "Energy saving. Specific energy consumption. General technical requirements".
- 8. National Standard of Ukraine ДСТУ 4156-2003 "Belt conveyors. Electric drive systems. Methodology of calculation and selection" etc.

1989 - till present time

Professor of Kiev Polytechnic Institute:

Prepared and deliver courses of lectures:

- "Theory of electric drive";
- "Electric power consumers";
- "Theory of belt conveyors";
- "Mining lifting devices";
- "Electromechanical equipment assembling and maintenance";
- "Energy saving modes and technologies";
- "Energy saving in electric drive";
- "Energy management";
- "Business planning";
- "Energy audit";
- "Environment management";
- "Environment audit", etc.

1999- 2007 **Professor of International University of Finance (Kiev)**

1999- 2007 **Professor of Newport University** (business planning) (USA)

1996	Energy auditing at Power Units 200 MW and 300 MW of two Power Plants of Ukraine.	
1997-1998	Energy auditing, disclosing and business-planning at Central iron ore- dressing company (Krivoy Rog, Ukraine).	
1997-1998	Energy audit at:	
	 Inguletsky iron ore-dressing company (Krivoy Rog, Ukraine); "ISKRA" Lightning Corporation (Lviv, Ukraine); 	
	• Lviv Bakery (Lviv, Ukraine). Designing Energy management system at Central iron ore-dressing	
1998 - 1999	company (Krivoy Rog, Ukraine). For the first time in Ukraine!	
2001	Energy auditing at Southern iron ore-dressing company (Krivoy Rog, Ukraine)	
2001 - 2002	Energy auditing at Crimea State Plant "TITAN"	
2000-2001	Energy auditing at Kiev Water Supply Plant "Kievvodocanal"	
2003	Energy auditing at Odessa Water Supply Plant "Odesvodocanal"	
2003	Energy auditing at Zaporiggya State Plant "Kremniypolymer"	
2004	Energy auditing at Irpyn brickworks (Irpyn, Kiev region)	
2006 - 2007	Energy auditing at Ternopyl Water Supply Plant "Ternopylvodocanal"	
2006 - 2007	Energy auditing + Designing Energy management system at Volnogorsk mining&metallurgical company (Dnepropetrovsk region, Ukraine)	
2007-2009	Energy auditing + Designing Energy management system at "CRIMSODA" - Crimea Chemical Plant (Krasnoperekopsk, Crimea, Ukraine)	
2007-2008	Energy auditing of tariff Shostka Thermal Power Plant (Shostka, Ukraine)	
2008-2009	Energy auditing of tariff Zaporiggya Heating Supply Company	
2012	Energy auditing at Shostka Thermal Power Plant (Shostka, Ukraine)	
2013	Energy auditing at Inguletsky iron ore-dressing company (Krivoy Rog, Ukraine);	
1996 –	Designing Standards (more than 40 Standards): - National Standard of Ukraine DSTU 3886-99 "Energy saving. Electric drive	
present time	systems. Method of analyses and selection".	
	- Standard of Ukraine I 00013184.0.001-97 "Methodology of designing standards in sphere of energy saving".	
	- National Standard of Ukraine DSTU 4065-2001 "Energy saving. Energy	
	audit. General requirements".National Standard of Ukraine DSTU 4110-2002 "Energy saving. Specific	
	Energy consumption. Calculation methodology".	
	- National Standard of Ukraine DSTU 4308-2004 "Belt conveyor. Electric drive systems. General requirements".	
	- National Standard of Ukraine DSTU 4156-2003 "Belt conveyor. Electric	
	drive systems. Calculation methodology".Standard of the Ministry of Ukraine on construction, architecture and housing	
	and municipal economy 74.30-35077234.011:2007 "Energy saving. Energy	
	management for municipal economy. General requirements".	

- Standard of National Joint-Stock Company "NATOGAZ OF UKRAINE" COY 74.1-20077720-024: 2006 "Energy saving. Energy audit of oil and gaz enterprises. General concepts";
- Standard of Joint-Stock Company "UKRTRANSNAFTA" COY 74.1-20077720-024: 2006 "Oil Pipelines. Energy saving. General requirements".
- 11 National Standards of Ukraine, harmonized with ISO 8528-1, ..., ISO 8528-10, ISO 8528-12
- National Standard of Ukraine harmonized with **International Performabce Measuring & Verification Protocol (IPMVP)**
- National Standard of Ukraine harmonized with ISO 13600-1997 "**Technical Energy Systems. Basic concepts**"
- National Standard of Ukraine harmonized with ISO 13601: 1998 "Technical Energy Systems. Structure for analysis. Energyware supply and demend sectors":
- Standard No. 0195U025335 of the Ministry of Coal Mining Industry of Ukraine "Belt conveyors. Method of selection and calculation of the drive"
- National Standard of Ukraine harmonized with ISO 50001 "Energy management systems Requirements with guidance for use"
- National Standard of Ukraine harmonized with **ISO 50002** "**Energy audits Requirements with guidance for use**" *etc*.

OTHER (PUBLIC) ACTIVITY

1996 - till present time

Chief of experts command of the Council of Central energy audit group (State Committee of Ukraine of Energy Saving):

- Legislative acts of Ukraine on energy saving and energy auditing;
- National Program on energy saving in Ukraine (taking participation in designing).
- **Expert activity** (Examination of reports on energy audit made Ukrainian energy auditors)

1996 - 1998

Executive Secretary of Certification Council of Ministry of Education of Ukraine

Design educational program, licensing, accreditation of high educational organization in energetic, electromechanical and electrical engineering

1996 - 2000

Science Secretary of Science-Expert Council (Ministry of Education of Ukraine) in electromechanical and electrical engineering
Expert activity

1997 - 1999

Member of Energy Efficiency and Energy Saving Work Group (USA-UKRAINE Kuchma - Gore committee)

Expert activity

1998 - 2001

Consultant of Parliament committee of industrial development

2002 - till present time

Consultant of Ukrainian Parliament in sphere of energy saving

2002 - till present time

Organization of conferences and training seminars in sphere of energy saving and ecology

Executive director of All Ukrainian public organization "Energy Auditors & Energy managers Supreme Council of Ukraine"

LIST TRAINING COURSES TAUGHT OR CURRENTLY TEACHING:

- "Energy saving modes and technologies";
- "Energy saving in electric drive";
- "Energy management";
- "Business planning";
- "Energy audit";
- "Environment management";
- "Environment audit";
- "Theory of electric drive";
- "Electric power consumers";
- "Theory of belt conveyors";
- "Mining lifting devices";
- "Electromechanical equipment assembling and maintenance", etc.

PUBLICATIONS

I have more than **100** scientific publications (mainly in Russian and Ukraine); **11** patents for inventions; **2** textbooks (Mining machines; Energy saving in electric drive systems; Energy management); more than **40** national standards of Ukraine in energy saving and energetic.

English language scientific publications: PEMC'96 - conference (2 reports); EPE'97 - conference (report); PEMC'98 - conference (report); EPE-PEMC-2000 - conference (2 reports); Keynote Speaker at the 2nd International Conference on "Advances in Steel, Power and Construction Technology // March 17-19, 2016. – OP Jindal University, Raigarth (CG) India, etc.

LANGUAGE SKILLS: (1=rudimentary; 5=mother tongue):

Language	Reading	Speaking	Writing
Russian	5	5	5
Ukrainian	5	5	5
English	4	4	4

INTERESTS:

My family; My work (I'm planning to write a book "Energy Management: Financial, Technical and Marketing aspects" and found a magazine "Energy management"); Teaching; Articles about Technical, Financial, and Marketing aspects of energy saving and electromechanical equipment in central Ukrainian magazines; Sports; Literature.

References available upon request

Detail information see at

http://elektromekhanika.com/en/