

IDEA ENGINEER



*Have an idea?
I will do.*

Personal information

Name:	Wojciech Marchaj
Date of birth:	1981
Marriage:	divorced
Title:	master of mathematics
Languages:	german, english, polish
Nationality:	polish
Availability:	3 months
Contract:	regular employment, outsourcing

Education

2000 – 2005	<p>Wrocław University of Technology Faculty of Fundamental Problems of Technology Field of study: Mathematics Specialization: Computer Science Master thesis in area of artificial intelligence – implementation of chess algorithms for real problem solving:</p> <p>http://www.wszystko.aplus.pl/reszta/boo/magazynier.pdf</p>
2004 – 2006	<p>Parallel field of study: mechanics & power engineering</p>

Own projects

Operational platform for storing higher mathematics stuff

marchematico
virtual course - real knowledge

CALCULUS LINEAR ALGEBRA FUNDAMENTALS DIFFERENTIAL EQUATION PROBABILITY GEOMETRY

Choose task: **medium**

task:

Calculate value :
 $\int \int_D y \, dx \, dy$
where $D = \{(x,y) : y^2 \geq 2(x-1), y^2 \leq x\}$.

solution:

See area D is cut of from plane using two paraboles
 $y^2 = x$
 $y^2 = 2(x-1)$
which are symmetrical with respect to OX axis.

Polski
[start here](#)
If you want to know more about me, please, visit my home page:
www.marchaj.com
If You have any suggestions concerning this page, need a solution or translation, please, send me an e-mail
Search in Marchematicos:

Scope	Calculus, linear algebra, geometry, differential equations, logic, probability, topology, measure theory, quantity theory
Language of implementation	PHP + MySQL + LaTeX + Javascript
The biggest achievement	Stuff stored in LaTeX text content and displayed as font, NOT images!
Languages of content	english, polish
Number of theorem/exercises stored	1405
Operational time	8 years
Link	http://www.marchematicos.com

3 kW permanent magnet windturbine (operational prototype)



Budget	10.000 EUR
Total number of coils	72
Highest mast	12 meters
The biggest battery charged	500 kg
Numbers of generators created	4
The strongest wind survived	20 m/s

Links	http://www.youtube.com/watch?v=k6Ds3Kmu6Hs
	http://www.youtube.com/watch?v=eCE8m9gHZ3o
	http://www.youtube.com/watch?v=l4r1BFBY5aY

Energetically independent, shared economy style community
Glass Castle Osłonino (Poland)



Budget 270.000 EUR

Number of physical visitors ~1500

Countries of visitors USA, Canada, UK, France, Switzerland, Russia, Israel, Germany, Poland, Czech Rep. Italy, Greece

Operational time 2,5 years

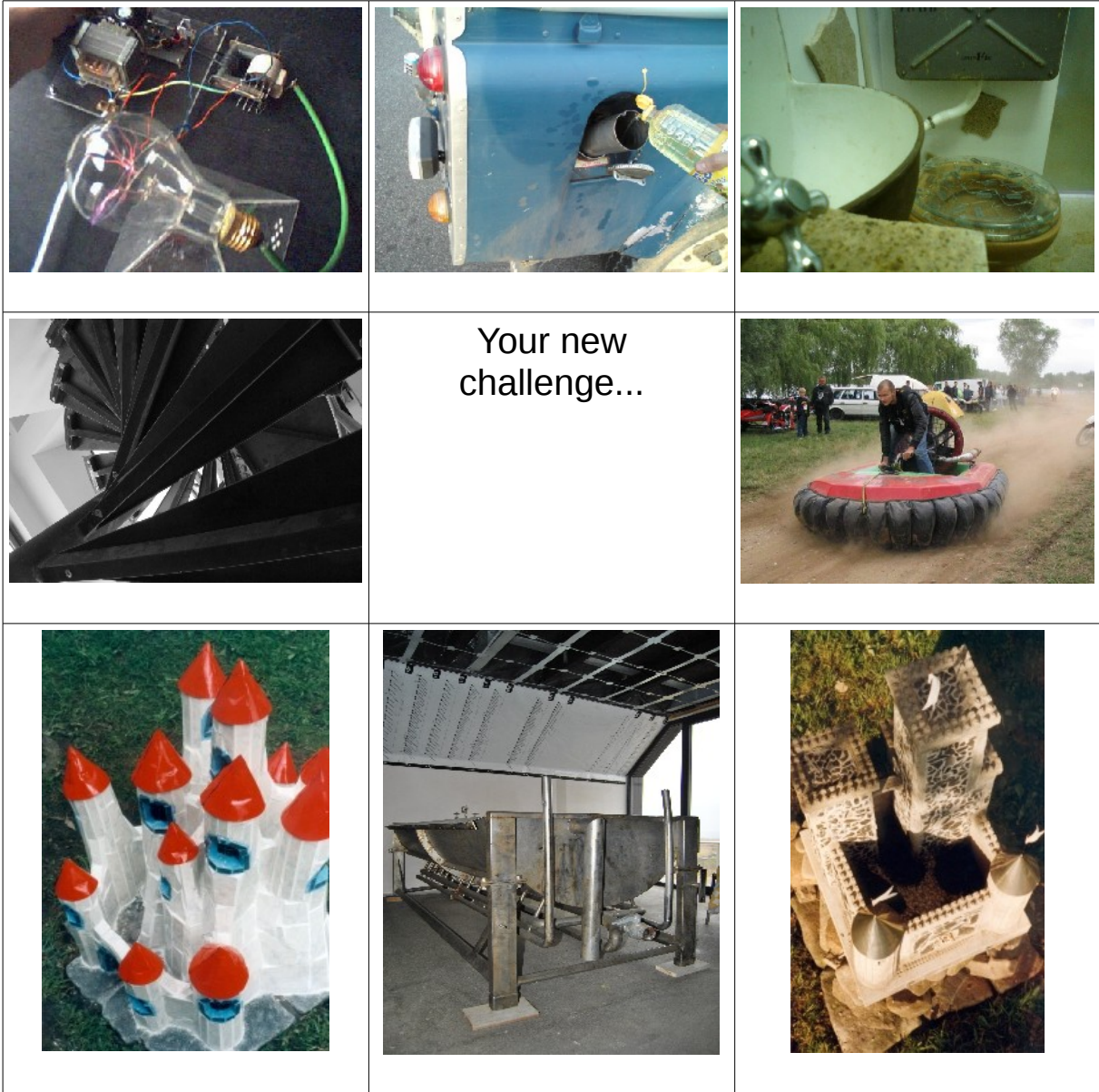
Manhours ~12000

Links Official website of the project:
<http://www.szklanyzamek.pl/index-en.php>
300 photos of construction phase:
<http://wszystko.aplus.pl/budowa/jakBudowalismySZ/>

Recommendations

- “Bravo!” *Bernard, metal works, Paris*
- “I have listened to radio reportage. I see you have achieved your goal, as usual.” *Gregory, journalist, “Wprost”*
- “It is impossible, you really exist!” *Magda, student*
- “Ich habe nirgendwann jemand wie du, mit so breiteren Idee getroffen” *Ufuk, software engineer, Turkey*
- “Whole this place is one big piece of art” *Johanna, architect*
- “You have filled so big gap, you will have here a tons of money in a minute” *Mark, writer*
- “Du bist ein seltsamer Mann in all den Ländern, in denen ich war” *Lisa, film director, Leipzig*

Other self-driven projects



External customers

SIEMENS	Patent-pending GSM/GPS wireless modules applications
Adva Optical Networking	Management systems for optical network concentrators
Jeppesen/Boeing	Migration of light marine & aviation navi systems to Apple products
Acxiom Corporation	Databases cohesion tests for General Motors, Philip Morris
Preh GmbH	Testautomation for Audi PHEV air conditioning systems
Amadeus GmbH	Testautomation for Amadeus Social Media Suite, Weg.de

Workshops/Certificates

2006 ISTQB Foundation Level

Timeline **2008**

Customer Wrocław University of Technology and SIEMENS

Project Softwareintegration – lecture and laboratory based on Siemens wireless modules technology.

Position hold Lecturer

Timeline **2004-2007**

Customer Wrocław University of Technology

Project Calculus classes for students

Position hold Assistant lecturer

Hobbies

Comics drawing Psychological aspects of seduction