



## CHARACTER DATA

CHARACTER'S NAME	TOMASZ MAREK STRZAŁKA
ZODIAC SIGN	AQUARIUS (26.01.1992)
CHARACTER'S LAND	CZERNICA
	ST. MORELOWA 11
	+48 724 097 031



## ATTRIBUTES \*

\* - percentage division of traits and assignment of roles based on tests: and

## PLOT BACKGROUND

2011.10  
2015.01

STUDIES: MASTER'S DEGREE,  
FIELD: COMPUTER SCIENCE,  
FACULTY: FUNDAMENTAL PROBLEMS OF TECHNOLOGY  
SPECIALISATION: ALGORITHMICS,  
DIPLOMA THESIS TOPIC:  
SELECTED ROBUST DISCRETE OPTIMIZATION PROBLEMS  
WITH RECURSIVE.  
THE FINAL GRADE OF THE STUDIES: 5,0 (A).

2011.10  
2015.01

STUDIES: ENGINEER'S DEGREE,  
FIELD: COMPUTER SCIENCE,  
FACULTY: FUNDAMENTAL PROBLEMS OF TECHNOLOGY,  
DIPLOMA THESIS TOPIC:  
THE SHORTEST PATH-SEARCHING ALGORITHMS  
IN REAL ROAD NETWORKS.  
THE FINAL GRADE OF THE STUDIES: 5,5 (A),  
SUCCESSES: LAUREATE OF THE BEST GRADUATE TITLE AT FACULTY  
OF FUNDAMENTAL PROBLEMS OF TECHNOLOGY  
IN ACADEMIC YEAR 2014/2015.

## LANGUAGES

ENGLISH (UPPER-INTERMEDIATE)  
SPEAKING: B2+ WRITING: B2+

GERMAN (BEGINNER)  
SPEAKING: A1 WRITING: A1

## COMMERCIAL EXPERIENCE



## COMMERCIAL PROJECTS

Sente Systemy Informatyczne Sp. z.o.o.

### E-LEARNING: GIT

Creation of an interactive, automated training environment in the field of version control systems (GIT). System assumptions:  
self-developing work with real repositories, provided automatically by the system, defining scenarios to be performed,  
the possibility of automated verification, system allows automatic interference in the state of any repository, modify it to suit  
the needs of the next scenarios (artificial repository user), ease of adding scenarios (HTML5, CSS3, JS: JQUERY, JQUERY UI, AJAX,  
DATA TABLES, NOTIFY, TIP TOP, NODE.JS: EXPRESS, SCRIBE-JS, JSON, GITOLITE, PERL, BASH, FIREBIRD/PSQL).

### POLISH SAF-T SYSTEM

Implementation of Standard Audit File for Tax (PL. JPK) service interfaces - a library supporting the generation of JPK documents based on  
downloaded information from customer databases, ensuring communication with the Ministry of Finance's electronic  
document exchange system for JPK (REST, AZURE STORAGE) along with proper data encryption (C#: RESTSHARP, BOUNCYCASTLE, NLOG, FIREBIRD/PSQL).

## NEOS CLI

IMPLEMENTATION OF THE INTERFACE FOR *ERP* APPLICATION FOR RUNNING EXTERNAL LIBRARIES. APPLICATION ASSUMPTIONS: A GRAPHICAL INTERFACE THAT DOWNLOADS AND PROCESSES INFORMATION FROM AN *ERP* APPLICATION DEPENDING ON THE LOADED LIBRARY (PLUG-IN), DISPLAYING THE STATUS OF DATA PROCESSING PROGRESS BY A PLUG-IN THROUGH A SHARED INTERFACE (C#: WPF, LINQ, FIREBIRD/PSQL).

## XADES SIGNING APPLICATION

IMPLEMENTATION OF A PLUG-IN LIBRARY TO SUPPORT CRYPTOGRAPHIC PROCESSES FOR THE NEEDS OF THE MINISTRY OF FINANCE'S ELECTRONIC FILE EXCHANGE SYSTEM. SYSTEM ASSUMPTIONS: OFFERING THE POSSIBILITY OF SUBMITTING AN ELECTRONIC SIGNATURE (XAdES-BES) ON ANY XML DOCUMENT (C#: WPF, MVVM, LINQ, BOUNCYCASTLE, NLOG).

## KNOWLEDGE

- ➊ C# (CURRENTLY LEADING – CAPGEMINI POLSKA SP. Z.O.O., SENTE SYSTEMY INFORMATYCZNE SP. Z.O.O.),
- ➋ C/C++ (BOTH DIPLOMA PROJECTS, C ++ NECESSARY FOR THE DEVELOPMENT OF THE SOURCE CODE OF *ERP* APPLICATION IN SENTE SYSTEMY INFORMATYCZNE SP. Z O.O. - TECHNOLOGICAL DEBT, RARELY USED),
- ➌ JAVA SE (A SIGNIFICANT PART OF ACADEMIC PROJECTS, STARTING COOPERATION WITH COMARCH S.A – JAVA EE).
  
- ➍ JS (NODEJS, REST, JQUERY ORAZ JQUERY UI, AJAX, TS, LAUREATE OF SYNERGY CODES CODE CHALLENGE 2015),
- ➎ HTML5/CSS3 (SELECTORS, CSS-GRID, BASIC STYLING AND TRANSFORMATIONS).
  
- ➏ KNOWLEDGE OF RELATIONAL DATABASES: FIREBIRD (SENTE SYSTEMY INFORMATYCZNE SP. Z.O.O.), ORACLE (COMARCH SA), MS SERVER (CAPGEMINI POLSKA SP. Z.O.O.),
  
- ➐ WORK WITH PROJECT MANAGEMENT ENVIRONMENTS LIKE JIRA (COMARCH SA, SENTE SYSTEMY INFORMATYCZNE SP. Z.O.O.),
- ➑ WORK WITH VERSION CONTROL SYSTEMS: SVN (COMARCH SA), GIT (SENTE SYSTEMY INFORMATYCZNE, CAPGEMINI POLSKA),
- ➒ WORK IN GIVEN PROGRAMMING ENVIRONMENTS: VISUAL STUDIO EXPRESS, ECLIPSE, IBEXPERT.
  
- ➓ KNOWLEDGE OF SCRUM METHODOLOGY (COMARCH SA, SENTE, CAPGEMINI), GNU BASH ENVIRONMENT,
- ➔ WORK WITH EJB, JPA, JSP, HIBERNATE, SPRING, APACHE POI-HSSF (COMARCH SA).
  
- ➕ IMPLEMENTATION AND GRAPHICAL SIMULATION OF STRUCTURES: RBT, ENHANCED RBT, BST, SKIPLIST, IMPLEMENTATION OF POSITIONAL STATISTICS BASED SEARCH ALGORITHMS - MEDIAN OF MEDIAN, RANDOMSELECT (JAVA, C ++),
  
- ➖ PRACTICAL KNOWLEDGE OF LP / MIP / IP PROGRAMMING AND OPTIMIZATION PACKAGES (GNU OCTAVE, IBM ILOG).

## ACADEMIC PROJECTS

MASTER'S DEGREE PROJECT. ROJEKT MAGISTERSKI. IMPLEMENTATION OF ROBUST OPTIMIZATION ALGORITHMS WITH SIMULTANEOUS SOLUTION OF PROBLEMS: MINIMAX, ADVERSARY, RESISTANT MINIMUM SPANNING TREE WITH THE POSSIBILITY OF IMPROVEMENT (C++11, LOG4CXX, GRAPHVIZ, IBM ILOG CPLEX, RAPIDJSON, Boost).

ENGINEERING PROJECT. IMPLEMENTATION OF SHORTEST-PATH SEARCH ALGORITHMS USED IN ROAD TRAFFIC: VARIANTS OF THE GENERIC DIJKSTRA ALGORITHM (WITH RANGE MODIFICATION (DKA), USING A MULTI-LEVEL STRUCTURE (DKD), WITH OVERFLOW SUPPORT (DKM)), BASED ON KNOWN STRUCTURES (K-TREES (DKH), R-HEAPS (DKR), FIBONACCI'S MOUND (DKF)), ALGORITHMS: DIAL (DKL), RADIXHEAP (DKX), PAPE (PAP), PALLOTTINO (TQQ), TOPOLOGICAL ALGORITHMS (GR1, GR2) AND A THRESHOLD ALGORITHM (THR) (C ISO 9899: 1999).

IMPLEMENTATION OF AN IMPERATIVE LANGUAGE COMPILER FOR A GIVEN VIRTUAL MACHINE SPECIFICATION (C, FLEX, BISON).

WEB APPLICATION FOR IT PROJECT MANAGEMENT INTEGRATED WITH THE SVN VERSION CONTROL SYSTEM. TEAM PROJECT BASED ON AJAX TECHNOLOGY AND MS SQL DATABASE (JQUERY/XHTML/T-SQL/MDX).

LoCHAT – SOCIAL APPLICATION BASED ON LOCAL REACH/LOCATION AND PREFERENCES/EXPECTATIONS. TEAM PROJECT THAT DELIVERS A SIMPLE WAY TO OBTAINING INFORMATION ABOUT THE REGION, LOCAL ACTIVITIES AD SO ON (ANDROID, POSTGRESQL, NODEJS, SOCKET.IO).

ANDROID MultiPLAY – AN APPLICATION FOR MOBILE DEVICES WITH ANDROID, SIMULATING MOST OF WELL-KNOWN PHYSICAL PLUG & PLAY CONTROLLERS (PC/PS). TEAM PROJECT USING WIRELESS WiFi / BT COMMUNICATION, SQLITE DATABASE (JAVA SE).

IMPLEMENTATION OF SORTING ALGORITHMS: INSERTION-, BUBBLE-, ITERATIVEMERGE-, RECURSIVEMERGE-, QUICK-, HEAP-, COUNTING-, RADIX - SORT. ANALYSIS OF THE COMPLEXITY OF INDIVIDUAL ALGORITHMS OR HYBRID VERSIONS OF THEM (JAVA SE).

SCHOLAPPTCREATOR – PROJECT GENERATING PRESENTATIONS IN .PPT FORMAT BASED ON GIVEN .TXT FILES (JAVA, APACHE POI-HSSF, CLI, EJB, GOOGLE MJL).

## OTHER DATA \*\*

### TEAM WORKER

TEAM MEMBER IS THE MATERIAL THAT CONNECTS THE TEAM. IT DEFINITELY CONTRIBUTES TO THE CREATION OF THE „TEAM SPIRIT”.

HE IS FUNNY, SENSITIVE TO THE FEELINGS OF OTHERS AND TO THE OVERALL ATMOSPHERE OF THE TEAM. HE REALIZES THE STRENGTHS AND WEAKNESSES OF OTHERS AND IS ABLE TO ADEQUATELY RESPOND TO THEIR DIVERSE NEEDS. HE WILL MOST LIKELY BE THE TRUSTEE OF THE OTHER TEAM MEMBERS, HE WILL KNOW THEIR PERSONAL PROBLEMS AND CRISES, NOT BECAUSE HE IS INQUISITIVE, BUT BECAUSE OF HIS ABILITY TO BE SINCERELY COMPASSIONATE. IT MAY SHOW INDECISIVENESS IN CRITICAL SITUATIONS AND WEAKNESS OF CHARACTER IN SOME SITUATIONS. HOWEVER, HIS ABILITY TO READ IN OTHERS AS IN AN OPEN BOOK AND THE AWARENESS OF HIS OWN SKILLS FAVORS RAISING THE TEAM'S MORALE AND CREATING A WILLINGNESS TO COOPERATE. FOR THIS REASON, HE IS OFTEN THE LEADER OF THE GROUP.

### COMPLETER

COMPLETER IS THE MEMBER OF THE TEAM WHO DOTS THE I'S AND GROSSES THE T'S. STRONGLY DEVELOPED ABILITY TO BRING THINGS TO THE END COMBINED WITH THE PURSUIT OF PERFECTION RAISES MANY ANXIETIES AND STRESSES. HE WILL WORRY ABOUT THE FINE DETAILS, BUT STILL, HE WILL DO HIS JOB WELL AND AT A CERTAIN TIME. NERVOUS ENERGY, WHICH ENGAGES IN THE FINAL EFFECT OF THE TEAM'S WORK, GUARANTEES HIGH QUALITY. SOMETIMES HE IS NOT A GOOD LEADER - HE „CLINGS TO” AND MIGHT PAY TOO MUCH ATTENTION TO DETAILS, WHICH REDUCES THE TEAM'S MORALE. NEVERTHELESS, THE COMPLETER IS STUBBORN AND PERSISTENT AND WILL NOT GIVE UP UNTIL HE IS SATISFIED WITH THE HIGH STANDARD OF HIS WORK.

\*\* - selection of roles and their description based on Meredith Belbin's test, created based on the theory of team roles.

## TEMA Test of analytical thinking

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process in terms of the 2016/679 regulation of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).