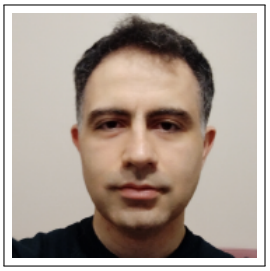
ERKAM MURAT BOZKURT

Curriculum Vitae (April 2022)

M.Sc in Control Systems Engineering



EDUCATION

2003 - 2007 **Master of Science**

Istanbul Technical University, Electric and Electronic Engineering Faculty, Control Systems Engineering Division. On the master of science thesis, what kind of parameters effect the numerical accuracy of the pole placement algoritms have been explored. *The pole placement algorithms are used in order to derive real time control softwares.* Related academic publications are given in publication list.

1998 - 2003 **Bachelor of Science**

Fırat University, Electric and Electronic Engineering Division, Control Systems Major.

PROFILE LINKS

Profecional Links

Linkedin - https://www.linkedin.com/in/erkam-murat-bozkurt-70a05418a

Orcid ID - https://orcid.org/0000-0003-3690-2770

Project Links

GitHub - https://github.com/Erkam-Murat-Bozkurt

Project Page - https://www.pcynlitx.com

IT SKILLS

Programming Languages

C/C++, Java, UNIX/Linux System Programming, Windows System Programming (Win32), Multithreaded Programming with Pthreads, std::threads and OpenMP, Git version control.

I am also developer of an innovative meta-programming platform which its web site is given on projects section of this resume with the name Pcynlitx platform. This platform produces application specific multi-threading libraries based on the project recuirements.

Operating Systems

GNU/Linux, Microsoft Windows

Compilers

Comprehensive knowledge on GNU gcc/g++ compiler tool chain, Mingw64 GNU gcc/g++ Windows implementation, I am also the developer of the innovative platform pcynlitx build which creates a MakeFile build system for C++ projects.

Shell Scripting

Microsoft PowerShell, GNU/Linux Bash scripting

Front-End Development

JavaScript, HTML, CSS, Wordpress

GUI development

wxWidgets Cross Platform, Open-Source C/C++ GUI library

Engineering Tools

Matlab, Simulink, Mathematica, GNU Plot, Latex.

COMPLATED PROJECTS

Pcynlitx Platform - Intelligent Programmable Meta Programming System

Pcynlitx is an innovative software development platform (Programmable IDE) which produces a class library for C++ multi-thread programming (multi-core programming) and the library that is constructed by the pcynlitx acts as an autonomous management system for the thread synchronization tasks. Pcynlitx is a trademark of Erkam Murat Bozkurt. Pcynlitx platform is an open source software platform and it can be used with GNU GPLv3 open source software license. The idea of pcynlitx is to use another software (a programmable meta-programming system) in order to reduce the complexity of multi-thread programming. The copyright registration for the Pcynlitx software has been completed. The software is ready to use and open the public. The GUI tutorial, code examples and the scientific introduction including the main designs philosophy of the program can be downloaded from the project web site as PDF files.

Project web site:

https://www.pcynlitx.com

Code repositories:

https://github.com/Erkam-Murat-Bozkurt/Pcynlitx

https://github.com/Erkam-Murat-Bozkurt/Pcynlitx.Win

Currently, pcynlitx can be used with both of the Linux and Windows operating systems. In Linux, the installation packages can be available as “deb”, “rpm” and snap package. Windows version is also available as an installation platform. In fact, pcynlitx platform is a collection of sophisticated metaprogramming systems. Each meta program that is used by pcynlitx platform has been developed as a part of a research project and pcynlitx system does not use any existing meta programming library, platform or API. More specifically, I have developed every meta-program that are used in platform and the graphical user interface of the platform as a result of a long term research study.

EXPERIENCES

Pcynlitx Software

Currently, I work on my own startup company named as Pcynlitx Software (2016-2022).

Enfez Elektrik Elektronik

Enfez Elektrik Elektronik Ltd. Şti, (2010,10 – 2016,11), The owner of the company TUBITAK Project Study: Bulut altyapı kullanıcısı şirketler için bulut yönetim otomasyonu, Project Number:7130900. Although the project has been rated as a very successful scientific study according to scientific reviewers, the project did not find a support by TUBITAK.

PUBLICATIONS

The usage of software cybernetic in software development and its application to the multi threading (its under revision, Possible publication date: 01.05.2021 – 01.06.2022)

E M Bozkurt and M T Söylemez, 2007 - 6, "The Effect of Distance between Open Loop Poles and Closed-Loop Poles on the Numerical Accuracy of Pole Assignment", the 15th Mediterranean Conference on Control and Automation, MED’07, Athens, Greece, IEEE, T19-020

E M Bozkurt and M T Söylemez, 2007- 7, "The Effect of Real Pole Ratio on the Performance of Pole Assignment Algorithms", European Control Conference ECC’07, Kos, Greece, pp 1082-1087

Bozkurt, E. M., and M.T Söylemez, The Numerical Analysis of the Pole Assignment Problem National Conference of Electrical Engineering and Computer Sciences, Bursa, Turkey

RESEARCH INTERESTS

Advance Control Systems, Software Cybernetics, Multi-Core Programming, Operating System Programming, GNU/Linux operating systems, C++ and C++ compilers.

LANGUAGES

English - Academic English Proficiency ÜDS -2009:78.89/100, KPDS-2009: 72/100

Turkish - Native

CONTACT INFORMATION

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PERSONAL INFORMATION

Nationality: Turkish, Birth Place: Erzurum, Date of Birth:12 December 1981