Yoshinobu Tanno *August 17, 2015*

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| Summary  I developed systems which were composed of software development. I learned computer vision (camera parameter, OpenCV) and control, get data of tool in windows (windows API). Then I was utilizing the knowledge to work.  During 3-years research assistant at Kanemoto laboratory. My project is 3d mapping of radiation. I developed assistant tool of distance revision and projection map because radiation sensor data rely on distance. Then outside distance data was constructed form stereo camera. | Therefore this project was realized from expertise in research area such as computer vison.  During graduate study, my main research was automation system of natural user interface. I recognized the movement using the data of the joint from Kinect. It started automatically by transmitting a packet to a machine and, at the time of specific movement, became electric power saving.  Therefore I also have knowledge about basic programming and network. |

Education

The University of Aizu Fukushima, Japan

**Research Assistant** Apr 2012-present

The University of Aizu Fukushima, Japan

**Master of Computer System**  *Apr 2010-Mar 2012*

The University of Aizu Fukushima, Japan

**B.S. in Computer Software** *Apr 2005-Mar 2010*

Research Experience

Interdisciplinary Information Studies and work, The University of Aizu.

**Research Assistant and other** *Apr 2012-present*

* Help for creating sensor information webpage. I programed using PHP in Visual Studio and Eclipse. Sensor is Arduino.
* Rewrite coding C# from FORTRAN about ANN and GA. I learned basic knowledge about backpropagation and Roulette choice.
* Creating investment tools. I used Windows API and C# and network system (server and client) or OCR.
* Creating image cutting tools. I used C# in Visual Studio.
* Creating file share system. I used fuse and C++ in Visual Studio
* Creating PI control system. I used Matlab and Simulink and Arduino and motor.
* Creating about stereo camera program. I used OpenCVSharp and learned stereo camera about matrix.
* Creating image processing Library. I used C# and C++ and Matlab and I learned basic algorithm about Delaunay triangulation in 3d and Collision judgment.
* Creating sharing image data in web. I used PHP and Eclipse.
* I taught student about programming.
* The above works and other is my home page http://ytanno.herokuapp.com/

Computer System Computer Science, the University of Aizu. Fukushima, Japan

**Master Student** **| Teaching Assistant** *Apr 2010-Mar 2012*

* Creating sensor network in lab. I used Arduino and temperature sensor and twitter API and C#.
* Building system to save power consumption using human behavior.  
  ・Estimating human behavior using Kinect as depth camera.  
  ・Developing detection of human's front whether or back, from depth  
  image using machine learning.  
  ・Controlling power switch of electrical appliances via network.

Computer Software Computer Science, the University of Aizu. Fukushima, Japan

**Undergraduate Student | Teaching Assistant** *Apr 2005-Mar 2010*

* Building application to manage digital document.  
  ・Realizing GUI with C#.  
  ・Developing tagging and visualizing documents by tree structure.

Skills

Programming: C/C++/C#/Java/Python/Ruby/Ruby on Rails/PHP/javascript etc.

Software: Autodesk/Openframeworks/Processing/Matlab/Simulink/Excel (VBA)/Wireshark/Visual Studio/Eclipse/FFmpeg/Unity

Hardware: Arduino/Pandaboard/FPGA

Modeling: Frame of stereo camera

Others: Image Recognition/Sensor Network/Clustering/Argument

Reality/Computer Vison/Windows API/

Natural Language; Japanese (native)

Professional Experience Not

Funding Not

Publication List Not

Award Not