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| **Cheol Hwang**  **EXPERIENCE** | 🏠 7038 W Lakefield Dr.  Milwaukee, WI  📞 +1 414-308-6873  📧 joel.c.hwang@gmail.com |
| **Changshin INC, ​**South Korea ​2020 – 2023​— ​*Software Engineer*  **Sejung INC, ​**South Korea​ 2019 - 2020​— Enterprise Blockchain Software Developer  **LG CNS, ​**South Korea ​2013 – 2018​— ​​*Software Engineer*  **EDUCATION**  **Chonnam National University, ​**South Korea ​MAR 2006 - FEB 2013​— *Computer Engineering* | <Scan here to see my [portfolio](https://joel-hwang.github.io/Resume/index_ko.html)>  **LANGUAGES**  Korean (Native)  English |

**PROJECTS**

**Deliverables Digitalization ​**AUG 2021 – APR 2023​— MS Office Add-in (C#)

Developed deliverables (MS Office) digitalization application by using MS Office Add-in Tools (VSTO). The application connected with the ARAS Innovator system. It helps users to make better deliverables like reducing typo and repetitive tasks. Also reformatted document data to allow interfacing with other legacy systems and database storage for data driven decisions.

**Product Lifecycle Management ​**MAY 2020 - APR 2023​— ARAS Innovator (C#, MSSQL)

Developed Product managing Applications by using ARAS Innovator (PLM Solution). Configurated and customizing the solution to make it fit to Shoes industrial companies. Analyzing workflow, data structure and communicating with shoes engineers to make better application.

1. Data Interface between PLM and ERP   
- Developed data interface module between ERP system (Oracle database) and PLM system(MSSQL database). Developed Restful API of PLM system to let the ERP system retrieve PLM data. And developed module of PLM to retrieve the ERP system data by Openquery because the systems use different DBMS.

2. Private CAD program Connector   
- Developed CAD connector to PLM. Changshin uses a private CAD program by the client(Nike). The cad program is not public so there is not a cad connector in the PLM solution(Aras Innovator). I found the users can save the cad file as dxf file format. I also found an open source javascript module named dxf.js to parse the dxf file. I implemented this dxf.js module in the PLM solution. So after users upload the dxf file from the cad, the system can parse the file and then make BOM, save the cad Image and material data to purchase tooling.

3. Office file preview Engine   
- Developed a preview engine of MS office for users can see the preview in PLM directly. Developed a queue system in the plm server. This queue detect the uploaded files and convert the files to pdf format to print pdf file on the web browser.

4. System education web page   
- Developed PLM education web page to make users can learn about PLM easily. The U.I is like Netflix or Youtube to be familiar the users. Also support English, Korean subtitles for abroad users(Vietnam, Indonesia).

5. Draw.io Connector in PLM  
- Customized Draw.io (open source based drawing graph tool) to connect the PLM system. It is used by the modules that needs drawing graphs with PLM data.

6. Aras Innovator Mobile Prototype  
- Developed a sample web app for android devices. It includes Barcode scanner with camera and PLM Data CRUD. I used React and Node.js.