

## OpenCV

1. Download Microsoft Visual Studio Community 2019: Select *Desktop development with C++*
2. Download OpenCV 3.4.6 executable (NOT the Zip file, otherwise you have to link differently!): Create folder which you can access easily (e.g. C:\OpenCV\_3\_4\_6) then extract it into this folder by launching the application
3. Windows Environment Variable: Under Environment Variables in settings edit PATH under System Variables and add C:\OpenCV\_3\_4\_6\opencv\build\x64\vc15\bin  
--> Reboot!
4. Create a new empty C++ project in Visual Studio: Launch and select empty project and select a useful folder to place the project, when created right click on the project and add, new item and the .cpp file
5. Change visibility of files: Settings --> File Explorer Options --> View --> *Uncheck Hide extensions for known file types*
6. Change project settings in Visual Studio:
  - Solution Configuration must be set to *Debug* and Solution Platform to *x64*
  - Project -> Properties --> Configuration Properties --> VC++ Directions --> Include Directories --> Edit, then paste C:\OpenCV\_3\_4\_6\opencv\build\include
  - SAME as before ... VC++ Directions --> Library Directories --> Edit, then paste C:\OpenCV\_3\_4\_6\opencv\build\x64\vc15\lib
  - Then change to Linker in the Configuration Properties --> Input --> Additional Dependencies --> Edit, then paste *opencv\_world346d.lib*