

GitHub link:

[https://github.com/emmanuelhimongon/COE\\_187\\_Embedded\\_Hardware\\_and\\_Software-Design](https://github.com/emmanuelhimongon/COE_187_Embedded_Hardware_and_Software-Design)  
[Upload the Program to Max78000/upload/main](#)

# COE187 MAX78000 Activity

Screenshots:

```
Microsoft Windows [Version 10.0.26200.7171]
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C:\MaximSDK\Examples\MAX78000\CNN\papersvglass>openocd -s C:\MaximSDK\Tools\OpenOCD/scripts -f interface/cmsis-dap.cfg -f target/max78000.cfg -c "program build/max78000.elf reset exit"
Open On-Chip Debugger (Analog Devices 0.12.0-1.0.0-7) OpenOCD 0.12.0 (2023-09-27-07:53)
Licensed under GNU GPL v2
Report bugs to <processor.tools.support@analog.com>
Info : CMSIS-DAP: SMD supported
Info : CMSIS-DAP: Atomic commands supported
Info : CMSIS-DAP: Test domain timer supported
Info : CMSIS-DAP: FW Version = 2.0.0
Info : CMSIS-DAP: Serial# = 042317025279ca6a000000000000000000000000097969906
Info : CMSIS-DAP: Interface Initialised (SMD)
Info : SWCLK/TCK = 1 SWDIO/TMS = 1 TDI = 0 TDO = 0 nTRST = 0 nRESET = 1
Info : CMSIS-DAP: Interface ready
Info : cLock speed 2000 kHz
Info : SMD DPIDR 0x2ba01477
Info : [max32xxx.cpu] Cortex-M4 r0p1 processor detected
Info : [max32xxx.cpu] target has 6 breakpoints, 4 watchpoints
Info : starting gdb server for max32xxx.cpu on 3333
Info : Listening on port 3333 for gdb connections
[max32xxx.cpu] halted due to debug-request, current mode: Thread
xPSR: 0x21000000 pc: 0x10002a8c msp: 0x2001ffe0
Info : SMD DPIDR 0x2ba01477
[max32xxx.cpu] halted due to debug-request, current mode: Thread
xPSR: 0x81000000 pc: 0x00002124 msp: 0x20003ffe
** Programming Started **
** Programming Finished **
** Resetting Target **
Microsoft Windows [Version 10.0.26200.7171]
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```

Results:

Approximate data loading and inference time: 12055 us

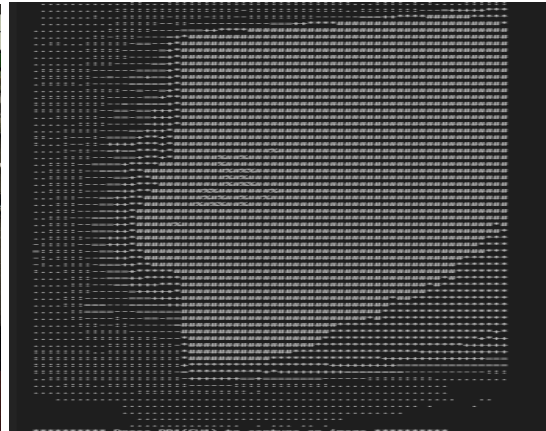
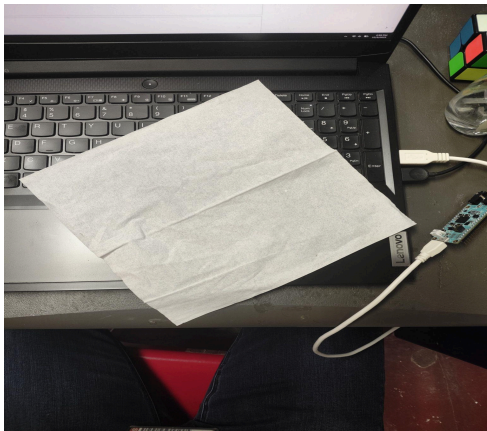
Classification results:

 $[16121] \rightarrow$ 

Paper: 98.5%

$[-79477] \rightarrow$

Glass: 1.5%



Approximate data loading and inference time: 12055 us

Classification results:

[ -41527]-> Paper: 33.3%

[ -27459]-> Glass: 66.7%

