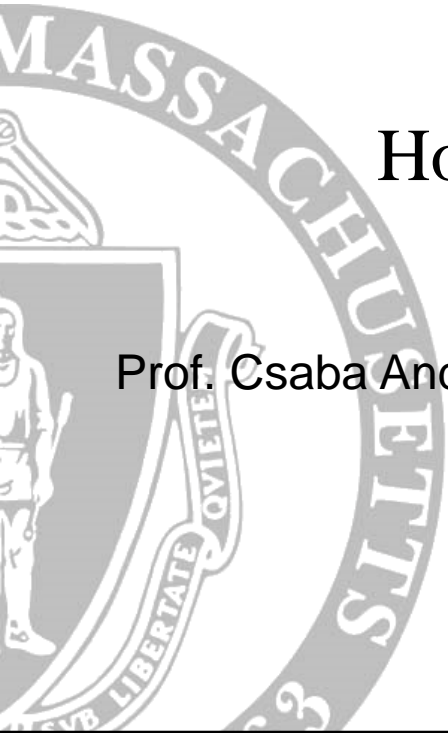


# Embedded System Board Comparison

How do they rank based on our criteria

Prof. Csaba Andras Moritz, and students Sachin Bhat, Omid Meh and Sam Baldwin

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# Summary Research and Recommendation

- Replace existing DE2 board with DE1 SoC
  - Offers higher capacity and performance
  - Some of the existing projects can be ported
  - New projects can be introduced to take advantage of the ARM core and larger FPGA capacity
  - Wide variety of courses in the dept. like Digital Design, Hardware Organization, Networks, Security, can make use of the board
    - Fits well new and old curriculum
  - Affordable
  - Tool support – projected longest life cycle remaining
- Next slide shows a competitive comparison within key selected criteria

# Board Comparison

<b>Feature</b>	<b>DE1-SoC</b>	<b>DE1</b>	<b>DE2</b>	<b>DE2-115</b>	<b>DE4</b>	<b>DE5</b>
Adequate Capacity	1	1	0	1	1	1
Tool Support	1	1	1	1	0	0
Affordability	1	1	1	1	0	0
Early in Life cycle	1	0	0	0	0	1
Useful Peripherals	1	1	0	1	1	1
ARM CPU support	1	0	0	0	0	0
<b>SCORE</b>	<b>6</b>	4	2	4	2	3