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|  | Assignment 4  Topic: Partially complete but working feature(s) of your project  Due: April 27, 2017 |

1. **Overview – Project Feature(s) as an Assignment**

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| You will have to bring your partially complete project that has at least one of the planned features implemented. You can define the features as you like. You will have to demonstrate that feature(s) to the instructor (in class, by 4:45 PM), and fill out the following form and upload this document (in PDF) to Sakai (online, by 11:55 PM). Note that the points earned in this assignment are not part of the final project; this is an independent assignment. Each student has to fill-out and upload this form individually (even if it is a group project). |

1. **Project Features and Status – 20 pt.**

**Project Title:**

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| **DanceDanceConvolution** |

**Project Brief Description (2 lines):**

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| **We aim to develop a music video app mimicking “DanceDanceConvolution”.**  **We use phone cameras to read players’ movement and use state-of-the-art convolutional neural network (thus the name “DanceDanceConvolution”) to infer their actual action.** |

**Project Status:**

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| Feature (be descriptive) | Pts | % Completed | Who’s in Charge | Grade (TA only) |
| 1. Live camera preview | 10 | 100 | Ke Wang |  |
| 1. Raw camera data preprocessing (YUV->RGB) in native C++ code | 10 | 100 | Ke Wang |  |
| 1. Cross-build TensorFlow inference engine for ARM architecture and deploy on Android | 10 | 100 | Ke Wang |  |
| 1. Training CNN on desktop GPU and converting to mobile CPU | 10 | 100 | Ke Wang |  |
| 1. Neural network architecture customization and optimization | 10 | 100 | Ke Wang |  |
| 1. … | X |  | Zhen Wei |  |
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1. **Group Member Information**

Our project is done by two graduate students. We list our info here:

* 1. Zhen Wei, PID [**FILL YOUR PID HERE**], [zhenni@cs.unc.edu](mailto:zhenni@cs.unc.edu)
  2. Ke Wang, PID 720352175, [kewang@cs.unc.edu](mailto:kewang@cs.unc.edu)