GLDM 2014 Technical interview Score Sheet

| Team name, Dance/ Theater , Judge's initials | |
|--|------|
| Electronic circuit design: Protection circuit, control circuit, and circuit design. | |
| Open-corrector, protection circuit, etc. are installed for LEDs light-control circuit | |
| Not installed=0;Installed, but design value is wrong=1/3;Circuits are designed with considerration for its heating=4. | /4 |
| LEDs light-control circuit has functions for light modulation | |
| Reward a circuit which can express the strong and weak lights | /3 |
| Reliable and robust assembly have been addressed | |
| (eg. What have you done to prevent your circuit from shot-circuit and leak? Have you done wiring and soldering with universal | |
| board and such? Have you considered risk management and insulating?) | /3 |
| Sub-total | /10 |
| Apearance decoration, costume, stage scenery, props. | |
| costumes/props/scenery by LEDs are innovative and well-made | |
| Interesting/innovative use of materials/costumes by LEDs/props/scenery are designed and made by the students (not | (0 |
| ready-made"). | /2 |
| lechnical extra score: | |
| e.g. lights/moving parts/ sound or light effects used on scenery/props. Reward dynamic more that static representations and | (0 |
| innovative use of technology. | /3 |
| Sub-total | /5 |
| Innovative use of technology: Electronics. | |
| Design and construction of circuit $I = 1/0$, $O = 1/0$ | |
| Using of the GR-SAKURA board with understanding how to use it. =1/2; Some home built circuitry used alongside the GR- | /0 |
| SAKUKAZ; Greate of a nome built shield for GR-SAKUKA and used it. =3. | /3 |
| Understanding of electronics used | |
| Understands operation of electronics (inputs, outputs, power, memory, processors, communications, sensors etc.), e.g. what is the function of electronics (inputs, outputs, power, memory, processors, communications, sensors etc.), e.g. what is | 12 |
| Inequation of each board? How are the controlling of LEDs (hardware)? How is supply of electric power? | / 3 |
| innovative use of technologies to all performance | |
| (e.g. communication between microcomputers to trigger events, recepting in sync with other microcomputers, novel use of technologies such as hult-in times to monitor duration of performance atc.) | /4 |
| Sub-total | /10 |
| Sensors Construction Construction | / 10 |
| Understanding for electronic devises used to microcomputer board | |
| h | /4 |
| Effective use of sensors that aid the performance | , - |
| an programming to respond to sensors using sensors to trigger next part of the performance how effective are the sensors | |
| septogramming to espond to sensors, dang sensors to tagget next part of the performance, now encouve are the sensors. | /Δ |
| Sub-total | /9 |
| Programing | /0 |
| They can explain describe and understand their program and programming language(s). | |
| (eg. What does this section of program to do? If I changed this command what effect would that have? What does this feature | |
| of the language do? What is difficult point when you have programed? Why did they choose that programming language?) No | |
| program shown = 0 | /3 |
| They are able to explain connections between the program and their performance | / 0 |
| (eg: How do you get your LEDs lighting to synchronize to music ? If it performs in a Theatre style, how is the lighting | |
| programming related to the music? Limited programming so that LEDs are vaguely in time with music = 1; LEDs programmed in | |
| full sync. with the music or performance = 3.) No program shown = 0 | /3 |
| Complex, innovative or original programming used appropriate to age and level of expertise | |
| (e.g. Simple commands = 1; Use of loops, nested sections, bifurcation, structure, original modules= 2; Use of interrupts/ | |
| innovative programming = 3) No program show= 0 | /3 |
| Sub-total | /9 |
| Team Work and Evidence of Authenticity. | |
| I eams bring all their microcomputer, props/scenery, electronic devices and programs (printed or on laptop) to the | |
| technical interview plus a completed GLMD Technical Sheet | 1.5 |
| leams can demonstrate the microcomputer board/props/scenery etc. | /2 |
| Evidence of authenticity and evolution. | |
| Students should be prepared for a interview to discuss ideas tried and discarded, the progressive evolution of their design and | 10 |
| original ideas and problems encountered and solved. | /3 |
| I eam shared the work and collaborated as a team | I |
| (eg: How did you share the tasks? How is comunicate method in the team? How many were really active in mounting circuits or | |
| programming ? How did they solve problems as a team? Did they have sub-teams? Ask how the team has managed to | /0 |
| complete multiple tasks. Did they get any help/support from adults or/and friends? If yes, ask what/how) | /3 |
| | 10 |

Recommend for awards □Programing
□Construction of microcomputer board

□Entertament

Electronics

TOTAL SCORE

/50

Recommend for awards

GLDM 2014 Performance Score Sheet

| Team name, Dance/ Theater , Judge's initials | |
|---|------|
| Choreography and Story-telling | |
| DANCE>>LEDs performance used interesting, engaging and/or artistic dance movements | |
| Tehater >>LEDs performance used interesting and/or engaging lighting which told a story | /2 |
| DANCE>>LED lights rhythmically to the music: | |
| LED lights do not match the music = 0; some match to the music = $1/2$; complements the music = 3. | |
| Theatre>>LED lights told a story whilst moving to music: | |
| LED lights do not match the music = 0; some match to the music = $1/2$; complements the music = 3. | /3 |
| Dance>>Work made use of the allocated dance space creatively to enhance the dance | |
| Theatre>>Work made use of the allocated dance space creatively to tell a story | /2 |
| Included more difficult movements/sequences with LED combination as the team took risks | |
| LED lights perform basic movements = 1; Examples of performance to be rewarded: coordination between multiple work, widly | |
| dynamic range of the strong and weak light, sequencing LED lights to an event, etc. | /3 |
| Sub-Total | /10 |
| Entertainment Value | |
| Performance engages the audience: | (0 |
| An overall theme and atmosphere was created, exciting, entertaining, enthralling, humorous, etc. | /3 |
| Props, scenery, humans costumes, human interaction or dancing complemented LEDs performance: | (0) |
| Does interaction of team menbers, props and scenery ADD to LEDs performance or DISTRACT from it? | /3 |
| Work appearance complements the performance | /2 |
| I echnical production: Production by LED lights, acoustic effect etc. are complements the performance. | /2 |
| Sub-Total | /10 |
| Explanation and material of presentation in a introduction of performance. | (0 |
| Introduction use or setup to explain the technologies used in the performance | /2 |
| Digital presentation used to enhance robotic performance: | / 4 |
| Reward creative presentations that enhance the overall performance. | /4 |
| Sub-Iotai | /0 |
| Sensors used in the performance | |
| Sensors used in the performance as described in the technical interview: | /0 |
| Using optical sensor in getting started, communication among microcomputer etc. | / 2 |
| Sub-Total | /2 |
| Execution of performance | /0 |
| LEDS were reliable and performed as expected (did not go wrong) | / 3 |
| Props, scenery including costumes and decorations were stable and did do not fall apart | /3 |
| numan intervention, numan stays within the defined area, and within the allotted time (including restarts), marks are | |
| removed for: | |
| Posterite -1 for each unplanned numan contact. | |
| Alletted times 5 mine may dense > 1 min / 2 mine Beduce seeve by 1 few event 10 see event 5 min event | /6 |
| Anotted time. 5 mins max. dance / 1 min, < 2 mins. Reduce score by 1 for every 10 sec over 5 min overall. | /10 |
| Sub-rotar Marks allocated at the judge's discretion | / 12 |
| marke anovative inneventive entertaining performance demonstrating on incriming or inneventive was of tasky larger that | |
| neward creative, innovative, entertaining performance demonstrating an inspiring or innovative use of technologies. Use | |
| notes below to brieny explain reason. / 10 | /10 |
| Sub-Total | /10 |

Recommend for certificate

□Construction of microcomputer board

□Entertament

Electronics

TOTAL SCORE

/50