

Nicholas Shaheed

Pulse

For Solo Flute, Computer, and Heart-Rate Monitor

2015

For additional information, open the patch's help file (see Using the Electronics).

Using the Electronics

The electronics consist of a Max/MSP 7 patch. Contact the composer for downloading and operating instructions. When the patch is up and running, hit the "Help" button to open the help file for the electronics.

Using the Heart Rate Monitor

To attach the Polar T31 Heart Rate Monitor:

1. Fasten one end of the heart rate sensor to the elastic strap.
2. Moisten the two grooved areas on the back.
3. Clip the heart rate sensor around your chest and adjust the strap to fit snugly.
4. Check that the wet grooved areas are firmly against your skin, and that the text on the heart rate sensor is in an upright position and at the center of your chest.

Taken from polar.com, see site for additional illustrations.

Additionally, it is recommended that a heart rate monitor electrode cream be used to ensure a more consistent connection between the skin and the sensor (Buh-Bump is one brand of cream).

Recommendations

It is recommended that a second performer control the levels of the electronics via a mixer. This will allow for more fine grained control of the dynamics in the electronics.

A click track is provided for the performer (and because of the constantly changing tempo, it is highly recommended that it be used). The click track outputs to channels 3 and 4, which the headphones should be plugged into.

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Movement I

♩ = Heart Beat

4 5 6 7

8 9 10

11 12 13 14

15 16 17

18 19 20

21 22 23

24 25 26

27 28 29 30 31

32 33 34

p

p

p

cresc.

mf

cresc.

p

mf

p

mf

p

f

p

35 *f* *p*

36 37 38

39 *mf*

40 41

42 *f*

43 44 45 46

47 *ff*

48 49 50 51

52 53 54 55 56

57 58 59 60 61 62

63 64 65

66 67 68

69 70 71 72 73 74

75 76 77 78 79 80

Detailed description: This musical score is for a single melodic line, likely for a piano or violin. It consists of nine staves of music, numbered 35 to 80. The key signature is one sharp (F#), and the time signature is 3/4. The score includes various musical notations such as eighth notes, quarter notes, and half notes, often beamed together. There are several dynamic markings: *f* (forte) at measure 35, *p* (piano) at measure 38, *mf* (mezzo-forte) at measure 39, *f* at measure 42, and *ff* (fortissimo) at measure 47. There are also accents (>) and slurs throughout. Some measures contain trills, indicated by a wavy line and the word 'trill'. The score ends with a double bar line at measure 80.

81 82 83 84 85

86 87 88

89 90 91

92 93 94

95 96 97 98 99 100

fff

101 102 103 104 105 106 107

p

108 109 110 111 112

sfz p sfz p

113 114 115 116 117

pp p

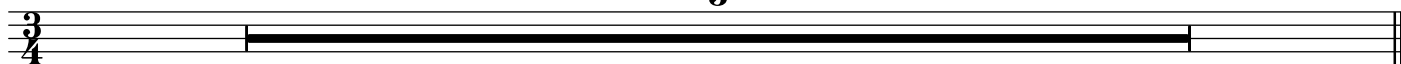
118 119 120 121 122 123

mf pp p

124 125 126 127 128 129 130

Interlude

3



Movement II

♩ = Heart Beat

1 2 3 4 5 6 7 8 9

10 11 12 13 14 15 16 17 18

19 20 21 22 23 24 25 26 27 28

29 30 31 32 33 34 35

p *f* *sf* *p* *f* *sf* *p* *mp* *mf*

36 *cresc. poco a poco* 37 38 39 40 41

36 37 38 39 40 41

42 43 44 45 46 48 49

fp *ff* *p*

42 43 44 45 46 48 49

50 51 52 53 54 55 56 57

50 51 52 53 54 55 56 57

58 59 60 61 62 63 64

58 59 60 61 62 63 64

65 *p* 66 *mp* 67 *mf* 68 69 70 *mp*

71 72 73 74 75 76

77 78 79 80 81 82 83

84 85 86 87 88 89

90 91 92 93 94 95 96 97 98

99 100 101 102 103 104 105 106 107 108 109

ff *f*

Interlude

12

Movement III

7 13 19

• = Heart Beat

p *mp* *mf*

24 *tr* *f*

30 *sp*

37 *sp* *mf*

43 *molto legato* *pp*

50

56 *tr*

63  *mp* *mf*

70  *f*

79  *f*

87  *p* molto legato

95 

102 

110 